

iris

*internal reseller information system*



# Tabla de contenidos Edición 20250404

|                                                                                                                            |    |
|----------------------------------------------------------------------------------------------------------------------------|----|
| <b>Automoción</b>                                                                                                          | 3  |
| Lubricantes para motores de vehículos pesados (HDDO) - Aprobaciones y recomendaciones                                      | 4  |
| Lubricantes para motores de vehículos ligeros (PCMO) - Aprobaciones y recomendaciones                                      | 9  |
| Lubricantes para transmisiones manuales (MTF) y diferenciales - Aprobaciones y recomendaciones                             | 13 |
| Lubricantes para transmisiones automáticas (ATF) - Aprobaciones y recomendaciones                                          | 21 |
| Tractores y Maquinaria de Obra Pública - Aprobaciones y recomendaciones                                                    | 30 |
| Motores pequeños - Aprobaciones y recomendaciones                                                                          | 35 |
| Motores pequeños - Gama de productos                                                                                       | 36 |
| Anticongelante - Gama de productos                                                                                         | 37 |
| Anticongelante - Evolución histórica de la tecnología aprobada por fabricantes de vehículo pesado - OEMS                   | 41 |
| Anticongelante - Evolución histórica de la tecnología aprobada por fabricantes de vehículos ligeros - OEMS                 | 42 |
| Otros automotive - Gama de productos                                                                                       | 43 |
| ZF - Productos Q8Oils aprobados y recomendados por ZF Friedrichshafen AG. Listado de lubricantes ZF TE-ML (dd. 31/11/2022) | 44 |
| <b>Industria</b>                                                                                                           | 46 |
| Fluidos hidráulicos - Gama de productos                                                                                    | 47 |
| Fluidos hidráulicos - Especificaciones y recomendaciones                                                                   | 48 |
| Grasas - Gama de productos                                                                                                 | 49 |
| Grasas - Posicionamiento                                                                                                   | 50 |
| Grasas                                                                                                                     | 51 |
| Grasas - Especificaciones DIN & ISO                                                                                        | 52 |
| Aceites reductores - Especificaciones y recomendaciones                                                                    | 53 |
| Fluidos desmoldeantes desencofrantes - Gama de productos                                                                   | 54 |
| Aceites térmicos - Gama de productos                                                                                       | 55 |
| <b>Energía</b>                                                                                                             | 57 |
| Motores a Gas (GEO) - Gama de productos                                                                                    | 58 |
| Motores a Gas (GEO) - Especificaciones y recomendaciones                                                                   | 59 |
| Motores a Gas (GEO) - Guía técnica                                                                                         | 60 |
| Aceites turbinas - Especificaciones & recomendaciones                                                                      | 61 |
| Aceites compresores - Especificaciones & recomendaciones                                                                   | 62 |
| Aceites compresores                                                                                                        | 63 |
| Marinos - Gama de productos                                                                                                | 64 |
| Aceites para Transformadores - Gama de productos                                                                           | 65 |
| <b>Fluidos para Mecanizado</b>                                                                                             | 66 |
| Fluidos para Mecanizado - Gama básica de aceites solubles                                                                  | 67 |
| Fluidos para Mecanizado - Gama de productos de aceites puros                                                               | 68 |
| Fluidos para Mecanizado - Productos Complementarios                                                                        | 69 |
| Productos de anticorrosión y de servicio                                                                                   | 70 |
| <b>Descargo de responsabilidad</b>                                                                                         | 71 |
| Agri & Off-Road - NEW Q8 Terra range - Aprobaciones y recomendaciones                                                      | 72 |

# 1. Automoción



# Lubricantes para motores de vehículos pesados (HDDO)

## Aprobaciones y recomendaciones (1 / 5)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|      | Q8 Formula Truck 9000 FE 5W-20 | Q8 Formula Truck 9000 FE 5W-30 | Q8 Formula Truck 8900 FE 5W-30 | Q8 Formula Truck 8900 FE 10W-30 | Q8 Formula Truck 8810 FE 5W-30 | Q8 Formula Truck 8620 FE 10W-30 | Q8 Formula Truck 8620 10W-40 | Q8 Formula Truck 8610 10W-40 | Q8 Formula Truck 8510 10W-40 | Q8 Formula Truck 7000 FE 10W-30 | Q8 Formula Truck 7000 10W-40 | Q8 Formula Truck 7000 15W-40 | Q8 Formula Truck 7000 15W-50 | Q8 City Bus Engine Oil 15W-50 | Q8 Formula Truck 6900 FE 5W-30 | Q8 T 860 S 10W-40 | Q8 T 860 10W-40 | Q8 T 800 10W-40 | Q8 T 800 10W-30 | Q8 T 750 15W-40 | Q8 T 750 20W-50 | Q8 T 750 SAE 10W | Q8 T 750 SAE 30 | Q8 T 750 SAE 40 | Q8 T 750 SAE 50 | Q8 T 520 15W-40 | Q8 T 520 20W-50 | Q8 T 200 SAE 40 |
|------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ✓    | ✓                              | ✓                              | ✓                              | ✓                               | ✓                              | ✓                               | ✓                            | ✓                            | ✓                            | ✓                               | ✓                            | ✓                            | ✓                            | ✓                             | ✓                              | ✓                 | ✓               | ✓               | ✓               | ✓               | ✓               | ✓                | ✓               | ✓               | ✓               | ✓               | ✓               | ✓               |
| <2.9 | ≤3.2                           | >3.5                           | >3.5                           | >3.5                            | >3.5                           | >3.5                            | >3.5                         | >3.5                         | >3.5                         | >3.5                            | >3.5                         | >3.5                         | >3.5                         | >3.5                          | >3.5                           | >3.5              | >3.5            | >3.5            | >3.5            | >3.5            | >3.5            | >3.5             | >3.5            | >3.5            | >3.5            | >3.5            | >3.5            | >3.5            |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

# Lubricantes para motores de vehículos pesados (HDDO)

## Aprobaciones y recomendaciones (2 / 5)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☒ Aprobación
  - ☒\* Aprobación pendiente
  - ✓ Recomendación

|                                          | Q8 Formula Truck 9000 FE 5W-20 | Q8 Formula Truck 9000 FE 5W-30      | Q8 Formula Truck 8900 FE 5W-30      | Q8 Formula Truck 8900 FE 10W-30     | Q8 Formula Truck 8810 FE 5W-30 | Q8 Formula Truck 8620 FE 10W-30     | Q8 Formula Truck 8620 10W-40        | Q8 Formula Truck 8610 10W-40 | Q8 Formula Truck 8510 10W-40        | Q8 Formula Truck 7000 FE 10W-30     | Q8 Formula Truck 7000 10W-40        | Q8 Formula Truck 7000 15W-40        | Q8 Formula Truck 7000 15W-50 | Q8 City Bus Engine Oil 15W-50 | Q8 Formula Truck 6900 FE 5W-30 | Q8 T 860 S 10W-40                     | Q8 T 860 10W-40                     | Q8 T 800 10W-40                     | Q8 T 800 10W-30 | Q8 T 750 15W-40                     | Q8 T 750 20W-50 | Q8 T 750 SAE 10W | Q8 T 750 SAE 30 | Q8 T 750 SAE 40 | Q8 T 750 SAE 50 | Q8 T 520 15W-40 | Q8 T 520 20W-50 | Q8 T 200 SAE 40 |
|------------------------------------------|--------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|-------------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------|-------------------------------|--------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-----------------|-------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Caterpillar ECF-2                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Caterpillar ECF-3                        |                                |                                     | ✓                                   | ✓                                   | ✓                              | ✓                                   | ✓                                   | ✓                            | ✓                                   | ✓                                   | ✓                                   | ✓                                   | ✓                            | ✓                             |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Caterpillar TO-2                         |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 | ✓                | ✓               |                 |                 |                 |                 | ✓               |
| CCMC D2                                  |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 | ✓               |
| Cummins CES 20071                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     | ✓                                   | ✓               | ✓                                   |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20072                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     | ✓                                   | ✓               | ✓                                   |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20076                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     | ✓                                   | ✓               | ✓                                   |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20077                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               | ✓                              | ✓                                     | ✓                                   | ✓                                   | ✓               | ✓                                   |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20078                        |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       | ✓                                   | ✓                                   | ✓               | <input checked="" type="checkbox"/> |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20081                        |                                |                                     | ✓                                   | ✓                                   | ✓                              |                                     |                                     | ✓                            | ✓                                   | ✓                                   | ✓                                   | ✓                                   |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20086                        |                                |                                     | <input checked="" type="checkbox"/> | ✓                                   | ✓                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ✓                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ✓                                   | <input checked="" type="checkbox"/> | ✓                            | ✓                             |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20087                        |                                | ✓                                   |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20092                        |                                |                                     |                                     |                                     |                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Cummins CES 20100                        |                                |                                     |                                     |                                     |                                | <input checked="" type="checkbox"/> |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF Extended Drain                       |                                |                                     |                                     |                                     | ✓                              |                                     |                                     | ✓                            | ✓                                   |                                     |                                     |                                     |                              |                               |                                | ✓                                     | ✓                                   |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF HP1                                  |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               | ✓                              |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF HP2                                  |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               | ✓                              |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF LPG engines                          |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     | ✓                                   |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF PSQL 2.1E                            |                                |                                     | ✓                                   | ✓                                   |                                |                                     |                                     |                              |                                     | ✓                                   |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF PSQL 2.1E LD                         |                                |                                     | ✓                                   | ✓                                   |                                | ✓                                   | ✓                                   |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| DAF PSQL 2.4                             |                                |                                     | ✓                                   | ✓                                   |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 13D110 (MB 235.28) |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                | <input checked="" type="checkbox"/> * |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15B110 (MB 228.3)  |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15B120 (MB 228.5)  |                                |                                     |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15C100 (MB 228.31) |                                |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                |                                     |                                     |                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15C110 (MB 228.51) |                                |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                | ✓                                   | ✓                                   |                              | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15C120 (MB 228.52) |                                |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                | ✓                                   | ✓                                   |                              | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15C130 (MB 228.61) |                                | <input checked="" type="checkbox"/> |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15D100 (MB 227.61) |                                |                                     | ✓                                   |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Daimler Truck AG DTFR 15E100             |                                |                                     |                                     |                                     |                                | <input checked="" type="checkbox"/> |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Detroit Diesel DFS 93K218                |                                |                                     |                                     | ✓                                   | ✓                              |                                     |                                     | ✓                            | ✓                                   | ✓                                   | ✓                                   | ✓                                   | ✓                            | ✓                             |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Detroit Diesel DFS 93K222                |                                |                                     | ✓                                   | ✓                                   | ✓                              | ✓                                   | ✓                                   | ✓                            | ✓                                   | ✓                                   | ✓                                   | ✓                                   | ✓                            | ✓                             |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |
| Detroit Diesel DFS 93K223                |                                | ✓                                   |                                     |                                     |                                |                                     |                                     |                              |                                     |                                     |                                     |                                     |                              |                               |                                |                                       |                                     |                                     |                 |                                     |                 |                  |                 |                 |                 |                 |                 |                 |

# Lubricantes para motores de vehículos pesados (HDDO)

## Aprobaciones y recomendaciones (3 / 5)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                          | Q8 Formula Truck 9000 FE 5W-20 | Q8 Formula Truck 9000 FE 5W-30 | Q8 Formula Truck 8900 FE 5W-30 | Q8 Formula Truck 8900 FE 10W-30 | Q8 Formula Truck 8810 FE 5W-30 | Q8 Formula Truck 8620 FE 10W-30 | Q8 Formula Truck 8620 10W-40 | Q8 Formula Truck 8610 10W-40 | Q8 Formula Truck 8510 10W-40 | Q8 Formula Truck 7000 FE 10W-30 | Q8 Formula Truck 7000 10W-40 | Q8 Formula Truck 7000 15W-40 | Q8 Formula Truck 7000 15W-50 | Q8 City Bus Engine Oil 15W-50 | Q8 Formula Truck 6900 FE 5W-30 | Q8 T 860 S 10W-40 | Q8 T 860 10W-40 | Q8 T 800 10W-40 | Q8 T 800 10W-30 | Q8 T 750 15W-40 | Q8 T 750 20W-50 | Q8 T 750 SAE 10W | Q8 T 750 SAE 30 | Q8 T 750 SAE 40 | Q8 T 750 SAE 50 | Q8 T 520 15W-40 | Q8 T 520 20W-50 | Q8 T 200 SAE 40 |
|------------------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Detroit Diesel Two-stroke diesel engines |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 | ✓               |
| Deutz DQC III-10                         |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   | ☑               |                 |                 | ☑               |                 |                  |                 |                 |                 |                 |                 |                 |
| Deutz DQC III-10 LA                      |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              | ✓                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Deutz DQC III-18 LA                      |                                |                                |                                |                                 |                                |                                 |                              |                              |                              | ☑                               | ☑                            | ☑                            | ✓                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Deutz DQC IV-10 LA                       |                                |                                | ✓                              |                                 |                                |                                 |                              | ✓                            |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Deutz DQC IV-18                          |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ✓                              | ✓                 | ✓               |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Deutz DQC IV-18 LA                       |                                |                                | ☑                              | ☑                               | ☑                              | ✓                               | ✓                            | ☑                            | ☑                            |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Ford M2C171-F1                           |                                |                                |                                |                                 |                                |                                 |                              |                              |                              | ✓                               | ✓                            | ✓                            | ✓                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Ford M2C213-A1                           |                                |                                | ✓                              |                                 | ✓                              |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Ford M2C214-B1                           |                                | ✓                              |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Ford M2C219-A1                           |                                | ✓                              |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Ford M2C944-A                            |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                | ☑*                | ✓               |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Global DHD-1                             |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   | •               | •               |                 | •               | •               |                  |                 |                 |                 |                 |                 |                 |
| GM Allison Two-stroke diesel engines     |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 | ✓               |
| Iveco 18-1804 T2 E7                      |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ✓                              |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Iveco 18-1804 T3 E4                      |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ✓                              |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Iveco 18-1804 TFE                        |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ✓                              |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Iveco 18-1804 TLS E6                     |                                |                                | ✓                              |                                 | •                              |                                 |                              | •                            | ✓                            |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Iveco 18-1804 TLS E9                     |                                |                                | •                              | •                               | •                              |                                 |                              | •                            | ✓                            |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Iveco 18-1809 NG2                        |                                |                                | ✓                              |                                 |                                |                                 | ✓                            | ✓                            |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| JASO DH-1                                |                                |                                |                                |                                 | •                              |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   | •               |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| JASO DH-2                                |                                | ✓                              | •                              | •                               | •                              |                                 |                              | •                            | •                            | ☑*                              | ☑*                           | ☑*                           | •                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| JASO DL-0                                |                                |                                |                                |                                 | ✓                              |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| John Deere JDQ 78X                       |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 | ✓                            | ✓                            |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Liebherr LH-00-ENG                       |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ✓                              |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Liebherr LH-00-ENG LA                    |                                |                                | ✓                              | ✓                               | ✓                              |                                 |                              | ✓                            | ✓                            |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Liebherr LH-00-ENG3A LA                  |                                |                                |                                | ✓                               |                                |                                 |                              | •                            | ✓                            |                                 | ✓                            | ✓                            |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Liebherr LH-00-ENG5C                     |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                | ✓                 | ✓               |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Liebherr LH-00-ENG5C LA                  |                                |                                | ✓                              |                                 | ✓                              |                                 |                              | ✓                            | ✓                            |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Mack EO-M Plus                           |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 | ✓               |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Mack EO-N                                |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               | ☑*                             | ☑                 | ☑               | ☑               |                 |                 | ☑               |                  |                 |                 |                 |                 |                 |                 |
| Mack EO-O Premium Plus                   |                                |                                |                                |                                 | ✓                              |                                 |                              | ✓                            | ✓                            | ✓                               | ✓                            | ✓                            | ✓                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Mack EO-S 4.5                            |                                |                                | ☑                              | ☑                               | ☑                              | ✓                               | ✓                            | ☑                            | ☑                            | ☑                               | ☑                            | ☑                            | ✓                            | ✓                             |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |

# Lubricantes para motores de vehículos pesados (HDDO)

## Aprobaciones y recomendaciones (4 / 5)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☒ Aprobación
  - ☒\* Aprobación pendiente
  - ✓ Recomendación

|                                     | Q8 Formula Truck 9000 FE 5W-20      | Q8 Formula Truck 9000 FE 5W-30 | Q8 Formula Truck 8900 FE 5W-30 | Q8 Formula Truck 8900 FE 10W-30 | Q8 Formula Truck 8810 FE 5W-30 | Q8 Formula Truck 8620 FE 10W-30 | Q8 Formula Truck 8620 10W-40 | Q8 Formula Truck 8610 10W-40 | Q8 Formula Truck 8510 10W-40 | Q8 Formula Truck 7000 FE 10W-30 | Q8 Formula Truck 7000 10W-40 | Q8 Formula Truck 7000 15W-40 | Q8 Formula Truck 7000 15W-50 | Q8 City Bus Engine Oil 15W-50 | Q8 Formula Truck 6900 FE 5W-30 | Q8 T 860 S 10W-40 | Q8 T 860 10W-40 | Q8 T 800 10W-40 | Q8 T 800 10W-30 | Q8 T 750 15W-40 | Q8 T 750 20W-50 | Q8 T 750 SAE 10W | Q8 T 750 SAE 30 | Q8 T 750 SAE 40 | Q8 T 750 SAE 50 | Q8 T 520 15W-40 | Q8 T 520 20W-50 | Q8 T 200 SAE 40 |
|-------------------------------------|-------------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |
|                                     |                                     |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |

# Lubricantes para motores de vehículos pesados (HDDO)

## Aprobaciones y recomendaciones (5 / 5)

### Leyenda

- (dd. 04/04/2025)
- Especificación
- ☑

Aprobación
- ☑\*

Aprobación pendiente
- ✓

Recomendación

|  | Q8 Formula Truck 9000 FE 5W-20 | Q8 Formula Truck 9000 FE 5W-30 | Q8 Formula Truck 8900 FE 5W-30 | Q8 Formula Truck 8900 FE 10W-30 | Q8 Formula Truck 8810 FE 5W-30 | Q8 Formula Truck 8620 FE 10W-30 | Q8 Formula Truck 8620 10W-40 | Q8 Formula Truck 8610 10W-40 | Q8 Formula Truck 8510 10W-40 | Q8 Formula Truck 7000 FE 10W-30 | Q8 Formula Truck 7000 10W-40 | Q8 Formula Truck 7000 15W-40 | Q8 Formula Truck 7000 15W-50 | Q8 City Bus Engine Oil 15W-50 | Q8 Formula Truck 6900 FE 5W-30 | Q8 T 860 S 10W-40 | Q8 T 860 10W-40 | Q8 T 800 10W-40 | Q8 T 800 10W-30 | Q8 T 750 15W-40 | Q8 T 750 20W-50 | Q8 T 750 SAE 10W | Q8 T 750 SAE 30 | Q8 T 750 SAE 40 | Q8 T 750 SAE 50 | Q8 T 520 15W-40 | Q8 T 520 20W-50 | Q8 T 200 SAE 40 |  |
|--|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |
|  |                                |                                |                                |                                 |                                |                                 |                              |                              |                              |                                 |                              |                              |                              |                               |                                |                   |                 |                 |                 |                 |                 |                  |                 |                 |                 |                 |                 |                 |  |

# Lubricantes para motores de vehículos ligeros (PCMO)

## Aprobaciones y recomendaciones (1 / 4)

### Leyenda

- (dd. 04/04/2025)
- Especificación
- ☑

Aprobación
- ☑\*

Aprobación pendiente
- ✓

Recomendación

|          | Q8 Formula Hybrid GF-6B 0W-16 | Q8 Formula Hybrid GF-6A 0W-20 | Q8 Formula Hybrid C6 0W-20 | Q8 Formula Special FE 0W-20 | Q8 Formula Special D1 FE 0W-20 | Q8 Formula Exclusive RN FE 0W-20 | Q8 Formula Techno Eco FE 0W-20 | Q8 Formula Elite FE 0W-20 | Q8 Formula V Blue 0W-20 | Q8 Formula Ultra V 0W-20 | Q8 Formula Exclusive Eco 5W-20 | Q8 Formula Exclusive V 0W-30 | Q8 Formula Techno Eco 0W-30 | Q8 Formula Elite C2 0W-30 | Q8 Formula Prestige V 5W-30 | Q8 Formula Elite C2/C3 5W-30 | Q8 Formula Special RN 5W-30 | Q8 Formula Elite FPW 5W-30 | Q8 Formula R Long Life 5W-30 | Q8 Formula Special D1 5W-30 | Q8 Formula Exclusive C1 5W-30 | Q8 Formula Special M 5W-40 | Q8 Formula M Long Life 5W-40 | Q8 Formula Excel Long Life FE 0W-30 | Q8 Formula Excel Long Life FE 5W-30 | Q8 Formula Techno FE Plus 5W-30 | Q8 Formula Advanced 10W-30 | Q8 Formula Excel Long Life 0W-40 | Q8 Formula Excel Long Life 5W-40 | Q8 Formula Excel 5W-40 | Q8 Formula Advanced Plus 10W-40 | Q8 Formula Plus 15W-40 | Q8 Formula Plus 20W-50 | Q8 Formula F1 10W-50 | Q8 Formula F1 10W-60 |
|----------|-------------------------------|-------------------------------|----------------------------|-----------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|--------------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------|----------------------------------|----------------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|
| Low SAPS | ✓                             | ✓                             | ✓                          | ✓                           | ✓                              | ✓                                | ✓                              | ✓                         | ✓                       | ✓                        | ✓                              | ✓                            | ✓                           | ✓                         | ✓                           | ✓                            | ✓                           | ✓                          | ✓                            | ✓                           | ✓                             | ✓                          | ✓                            |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| HTHS     | ≥2.3                          | ≥2.6                          | ≥2.6                       | ≥2.6                        | ≥2.6                           | ≥2.6                             | ≥2.6                           | ≥2.6                      | ≥2.6                    | ≥2.6                     | ≥2.6                           | ≥3.5                         | ≥2.9                        | ≥2.9                      | ≥3.5                        | >3.5                         | ≥3.5                        | ≥3.5                       | ≥3.5                         | ≥2.9                        | ≥2.9                          | ≥3.5                       | ≥3.5                         | ≥3.2                                | ≥3.5                                | ≥2.9                            | ≥3.2                       | ≥3.5                             | ≥3.5                             | ≥3.5                   | >3.5                            | ≥3.5                   | ≥3.5                   | ≥3.5                 |                      |

|             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Abarth 0101 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

Aprobaciones y recomendaciones (2 / 4)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☒

Aprobación
- ☒

\* Aprobación pendiente
- ✓

Recomendación

|                        | Q8 Formula Hybrid GF-6B 0W-16 | Q8 Formula Hybrid GF-6A 0W-20 | Q8 Formula Hybrid C6 0W-20 | Q8 Formula Special FE 0W-20 | Q8 Formula Special D1 FE 0W-20 | Q8 Formula Exclusive RN FE 0W-20 | Q8 Formula Techno Eco FE 0W-20 | Q8 Formula Elite FE 0W-20 | Q8 Formula V Blue 0W-20 | Q8 Formula Ultra V 0W-20 | Q8 Formula Exclusive Eco 5W-20 | Q8 Formula Exclusive V 0W-30 | Q8 Formula Techno Eco 0W-30 | Q8 Formula Elite C2 0W-30 | Q8 Formula Prestige V 5W-30 | Q8 Formula Elite C2/C3 5W-30 | Q8 Formula Special RN 5W-30 | Q8 Formula Elite FPW 5W-30 | Q8 Formula R Long Life 5W-30 | Q8 Formula Special D1 5W-30 | Q8 Formula Exclusive C1 5W-30 | Q8 Formula Special M 5W-40 | Q8 Formula M Long Life 5W-40 | Q8 Formula Excel Long Life FE 0W-30 | Q8 Formula Excel Long Life FE 5W-30 | Q8 Formula Techno FE Plus 5W-30 | Q8 Formula Advanced 10W-30 | Q8 Formula Excel Long Life 0W-40 | Q8 Formula Excel Long Life 5W-40 | Q8 Formula Excel 5W-40 | Q8 Formula Advanced Plus 10W-40 | Q8 Formula Plus 15W-40 | Q8 Formula Plus 20W-50 | Q8 Formula F1 10W-50 | Q8 Formula F1 10W-60 |  |
|------------------------|-------------------------------|-------------------------------|----------------------------|-----------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|--------------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------|----------------------------------|----------------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|--|
| Fiat 9.55535-DM1       |                               |                               | ✓                          | ✓                           |                                |                                  |                                | ✓                         |                         |                          |                                |                              | ●                           | ●                         |                             | ✓                            |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-DS1       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-DSX       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-G1        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-GH2       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     | ●                               |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-GS1       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              | ●                           | ●                         |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-GSX       |                               |                               | ✓                          |                             |                                |                                  | ✓                              |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              | ✓                                   |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-H2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-M2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-N2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-S1        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-S2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-S3        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-S4        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-T2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Fiat 9.55535-Z2        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C912            |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C913-A          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C913-B          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C913-C          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C913-D          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C917-A          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C934-B          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C937-A          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C947-A          |                               |                               |                            | ✓                           |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C947-B1         |                               |                               | ✓                          |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C948-B          |                               |                               | ✓                          |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C950-A          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C952-A1         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C954-A1         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Ford M2C956-A1         |                               |                               | ✓                          | ✓                           |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| GM Dexos D (OV0401547) |                               |                               |                            |                             |                                | ✓                                |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| GM Dexos1 Gen3         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |

## Aprobaciones y recomendaciones (3 / 4)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                   | Q8 Formula Hybrid GF-6B 0W-16 | Q8 Formula Hybrid GF-6A 0W-20 | Q8 Formula Hybrid C6 0W-20 | Q8 Formula Special FE 0W-20 | Q8 Formula Special D1 FE 0W-20 | Q8 Formula Exclusive RN FE 0W-20 | Q8 Formula Techno Eco FE 0W-20 | Q8 Formula Elite FE 0W-20 | Q8 Formula V Blue 0W-20 | Q8 Formula Ultra V 0W-20 | Q8 Formula Exclusive Eco 5W-20 | Q8 Formula Exclusive V 0W-30 | Q8 Formula Techno Eco 0W-30 | Q8 Formula Elite C2 0W-30 | Q8 Formula Prestige V 5W-30 | Q8 Formula Elite C2/C3 5W-30 | Q8 Formula Special RN 5W-30 | Q8 Formula Elite FPW 5W-30 | Q8 Formula R Long Life 5W-30 | Q8 Formula Special D1 5W-30 | Q8 Formula Exclusive C1 5W-30 | Q8 Formula Special M 5W-40 | Q8 Formula M Long Life 5W-40 | Q8 Formula Excel Long Life FE 0W-30 | Q8 Formula Excel Long Life FE 5W-30 | Q8 Formula Techno FE Plus 5W-30 | Q8 Formula Advanced 10W-30 | Q8 Formula Excel Long Life 0W-40 | Q8 Formula Excel Long Life 5W-40 | Q8 Formula Excel 5W-40 | Q8 Formula Advanced Plus 10W-40 | Q8 Formula Plus 15W-40 | Q8 Formula Plus 20W-50 | Q8 Formula F1 10W-50 | Q8 Formula E1 10W-60 |
|-----------------------------------|-------------------------------|-------------------------------|----------------------------|-----------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|--------------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------|----------------------------------|----------------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|
| GM Dexos2                         | •                             | •                             | •                          | •                           | •                              |                                  |                                |                           |                         |                          |                                |                              |                             |                           | ✓                           |                              |                             |                            |                              |                             |                               | ✓                          | ✓                            |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| GM LL-A-025                       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| GM LL-B-025                       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| ILSAC GF-5                        |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| ILSAC GF-6A                       |                               | •                             | •                          | •                           | •                              |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| ILSAC GF-6B                       | •                             |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Iveco 18-1811 SC1                 |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Iveco 18-1811 SC1 LV              |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.03.5003   |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.03.5004   |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.03.5005   |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.03.5006   |                               |                               |                            | ✓                           | ☑                              |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.03.5007   |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Jaguar Land Rover STJLR.51.5122   |                               |                               |                            |                             |                                |                                  | ✓                              |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 226.5                          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        | ✓                      |                      |                      |
| MB 226.51                         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 226.52                         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.1                          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.3                          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.31                         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.5                          |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.51                         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB 229.52                         |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| MB Aprobación 229.51              |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Opel/Vauxhall OV0401547 (Dexos D) |                               |                               |                            | ✓                           |                                |                                  | ✓                              |                           |                         |                          |                                |                              |                             |                           |                             |                              | ✓                           |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Opel/Vauxhall OV0401547-A20       |                               |                               |                            | ☑                           |                                |                                  | ✓                              |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Opel/Vauxhall OV0401547-D30       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Opel/Vauxhall OV0401547-G30       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Porsche A40                       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              | ✓                                   |                                     |                                 |                            |                                  | ☑                                | ✓                      |                                 |                        |                        |                      |                      |
| Porsche C20                       |                               |                               |                            |                             |                                |                                  |                                | ☑                         |                         |                          |                                |                              |                             |                           |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |
| Porsche C30                       |                               |                               |                            |                             |                                |                                  |                                |                           |                         |                          | ☑                              |                              |                             | ☑                         |                             |                              |                             |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |

Aprobaciones y recomendaciones (4 / 4)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☒

Aprobación
- ☒

Aprobación pendiente
- ✓

Recomendación

|                                                | Q8 Formula Hybrid GF-6B 0W-16 | Q8 Formula Hybrid GF-6A 0W-20 | Q8 Formula Hybrid C6 0W-20 | Q8 Formula Special FE 0W-20 | Q8 Formula Special D1 FE 0W-20 | Q8 Formula Exclusive RN FE 0W-20    | Q8 Formula Techno Eco FE 0W-20 | Q8 Formula Elite FE 0W-20           | Q8 Formula V Blue 0W-20 | Q8 Formula Ultra V 0W-20 | Q8 Formula Exclusive Eco 5W-20 | Q8 Formula Exclusive V 0W-30 | Q8 Formula Techno Eco 0W-30 | Q8 Formula Elite C2 0W-30 | Q8 Formula Prestige V 5W-30 | Q8 Formula Elite C2/C3 5W-30 | Q8 Formula Special RN 5W-30         | Q8 Formula Elite FPW 5W-30 | Q8 Formula R Long Life 5W-30 | Q8 Formula Special D1 5W-30 | Q8 Formula Exclusive C1 5W-30 | Q8 Formula Special M 5W-40 | Q8 Formula M Long Life 5W-40 | Q8 Formula Excel Long Life FE 0W-30 | Q8 Formula Excel Long Life FE 5W-30 | Q8 Formula Techno FE Plus 5W-30 | Q8 Formula Advanced 10W-30 | Q8 Formula Excel Long Life 0W-40 | Q8 Formula Excel Long Life 5W-40 | Q8 Formula Excel 5W-40 | Q8 Formula Advanced Plus 10W-40 | Q8 Formula Plus 15W-40 | Q8 Formula Plus 20W-50 | Q8 Formula F1 10W-50 | Q8 Formula F1 10W-60 |  |
|------------------------------------------------|-------------------------------|-------------------------------|----------------------------|-----------------------------|--------------------------------|-------------------------------------|--------------------------------|-------------------------------------|-------------------------|--------------------------|--------------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------|----------------------------------|----------------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|--|
| Porsche C40                                    |                               |                               |                            |                             |                                |                                     |                                | <input checked="" type="checkbox"/> |                         |                          |                                |                              |                             |                           |                             |                              | <input checked="" type="checkbox"/> |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2010                                   |                               |                               |                            |                             |                                |                                     |                                | <input checked="" type="checkbox"/> |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2290                                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2290-2014                              |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2296                                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2297                                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2300                                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| PSA B71 2312-2022                              |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Renault RN 0700                                |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Renault RN 0710                                |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Renault RN 0720                                |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Renault RN17                                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Renault RN17 FE                                |                               |                               |                            |                             |                                | <input checked="" type="checkbox"/> |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Stellantis FPW 9.55535-03 (DVR5R wear,EP6 E10) |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Toyota SFU                                     |                               |                               |                            | ✓                           |                                |                                     | ✓                              |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 501.01                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 502.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 503.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 503.01                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 504.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 504.00 Baumuster 2020                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 505.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 505.01                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 506.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 506.01                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 507.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 507.00 Baumuster 2020                   |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 508.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 509.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| VAG VW 511.00                                  |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Volvo VCC 95200356                             |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Volvo VCC 95200377                             |                               |                               |                            |                             |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |
| Volvo VCC RBS0-2AE                             |                               |                               | ✓                          | ✓                           |                                |                                     |                                |                                     |                         |                          |                                |                              |                             |                           |                             |                              |                                     |                            |                              |                             |                               |                            |                              |                                     |                                     |                                 |                            |                                  |                                  |                        |                                 |                        |                        |                      |                      |  |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (1 / 8)

Leyenda

(dd. 04/04/2025)

Especificación

☒

Aprobación

☒

Aprobación pendiente

☒

Recomendación

|                                          | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90                      | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80       | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90                 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|------------------------------------------|-----------------|----------------|----------------|-------------------------------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|-------------------------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| Reductores                               | ✓               | ✓              | ✓              | ✓                                   | ✓              | ✓                 | ✓                      | ✓              | ✓              | ✓               | ✓              | ✓                 | ✓                     | ✓                      | ✓                       | ✓                                   | ✓                             | ✓                    | ✓                       | ✓                       | ✓                     | ✓                   | ✓                                   | ✓                   | ✓                    | ✓                    | ✓                       | ✓                          | ✓                          | ✓                    |
| Diferenciales                            |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Desplazamiento limitado                  |                 |                |                |                                     |                | ✓                 | ✓                      |                |                |                 |                | ✓                 | ✓                     |                        |                         |                                     |                               |                      |                         |                         |                       | ✓                   | ✓                                   |                     |                      |                      |                         |                            |                            |                      |
| API GL-4                                 | •               | •              | •              | •                                   | ✓              |                   |                        |                |                |                 |                |                   |                       | •                      |                         |                                     |                               | •                    | •                       | •                       | •                     | •                   | •                                   | •                   | •                    |                      | •                       | •                          | •                          |                      |
| API GL-5                                 |                 |                |                |                                     |                |                   |                        | •              | •              | •               | •              |                   | •                     | •                      | •                       | •                                   |                               |                      |                         |                         | •                     | •                   | •                                   | •                   | •                    | •                    |                         |                            |                            |                      |
| API GL-5 LS                              |                 |                |                |                                     |                | •                 | •                      |                |                |                 |                | •                 | •                     |                        |                         |                                     |                               |                      |                         |                         | •                     | •                   | •                                   | •                   | •                    | •                    |                         |                            |                            |                      |
| API MT-1                                 |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       | •                      |                         |                                     |                               |                      |                         |                         | ✓                     |                     | •                                   | •                   |                      | •                    |                         |                            |                            |                      |
| BMW/MINI 2300 1434 404BMW                |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          |                            |                      |
| BMW/MINI 2300 7533 513                   |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          |                            |                      |
| BMW/MINI 2300 7533 818                   |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| BMW/MINI 83 22 0 309 031                 |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          |                            |                      |
| BMW/MINI 83 22 0 396 706                 |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| BMW/MINI 83 22 7 533 818                 |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| BMW/MINI ATF-D2                          |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          |                            |                      |
| BMW/MINI JWS 2271                        |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       |                            |                            |                      |
| BMW/MINI MTF-LT1                         |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          |                            |                      |
| BMW/MINI MTF-LT2                         |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| BMW/MINI MTF-LT3                         |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| BMW/MINI MTF-LT4                         |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          | ✓                          |                      |
| BMW/MINI MTF-LT5                         |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         | ✓                          | ✓                          |                      |
| British Ministry of Defence CS 3000B     |                 |                |                |                                     |                |                   |                        | •              | •              | •               |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Case MS 1316                             |                 |                |                |                                     |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Clark ALC-1 5M 7-80 KE                   |                 |                |                |                                     |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Clark MS-8 Rev. 1                        |                 |                |                |                                     |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Clark TLC-25 3M 8-83                     |                 |                |                |                                     |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Daimler Truck AG DTFR 12B100 (MB 235.0)  |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     | ✓                                   |                     |                      |                      |                         |                            |                            |                      |
| Daimler Truck AG DTFR 12B120 (MB 235.31) |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         | <input checked="" type="checkbox"/> |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Daimler Truck AG DTFR 12B140 (MB 235.8)  |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                         |                            |                            |                      |
| Daimler Truck AG DTFR 13B110 (MB 235.11) |                 |                |                | <input checked="" type="checkbox"/> |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                         |                            |                            |                      |
| Detroit Diesel DFS 93K219.01             |                 |                |                |                                     |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       | ✓                   |                                     |                     |                      |                      |                         |                            |                            |                      |
| Eaton/Fuller Bulletin 2052               | ✓               | ✓              | ✓              |                                     |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Eaton/Fuller Bulletin 2053               | ✓               | ✓              | ✓              |                                     |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |
| Eaton/Fuller Bulletin 6007               |                 |                |                |                                     |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                                     |                               |                      |                         |                         |                       |                     |                                     |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (2 / 8)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                                    | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|----------------------------------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| Eaton/Fuller Europa Drenaje extendido (300.000 km) | ✓               | ✓              | ✓              |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Eaton/Fuller Form 121                              | ✓               | ✓              | ✓              |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Ferrari GL-4                                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| Ferrari GL-5                                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-DA3                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-DA4                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-DA8                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-DA9                                   |                 |                |                |                |                |                   |                        |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-MX3                                   |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         | •                          | •                          |                      |
| Fiat 9.55550-MX4                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-MZ1                                   |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            | •                          |                      |
| Fiat 9.55550-MZ10                                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Fiat 9.55550-MZ11                                  |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Fiat 9.55550-MZ12                                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Fiat 9.55550-MZ14                                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Fiat 9.55550-MZ2                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Fiat 9.55550-MZ27                                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Fiat 9.55550-MZ3                                   |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Fiat 9.55550-MZ4                                   |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Fiat 9.55550-MZ5                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | •                          |                            |                      |
| Fiat 9.55550-MZ6                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Fiat 9.55550-MZ9                                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Ford 1382914                                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Ford 1547953                                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Ford ESD-M2C186-A                                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Ford M2C119-A                                      |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Ford M2C154-A                                      |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Ford M2C175-A                                      |                 |                |                |                | ✓              |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Ford M2C192-A                                      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| Ford M2C200-C                                      |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Ford M2C200-C/C2/C3                                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Ford M2C200-D1                                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Ford M2C200-D2                                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | •                    | ✓                       |                            |                            |                      |
| Ford M2C200-D3                                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (3 / 8)

### Legenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                             | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|-----------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| Ford M2C210-A               |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Ford SM-2C-1011A            | ✓               | ✓              | ✓              |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Ford SQM-2C9002-AA          |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Ford SQM-2C9008-A           | ✓               | ✓              | ✓              |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Ford WSD-M2C200-D           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 1940182                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| GM 1940704                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| GM 1940711                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| GM 194075 (90001777)        | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| GM 1940757                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 1940759 (90188629)       |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 1940761                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 1940768                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          | ●                          |                      |
| GM 1940776                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 1942382 (90006326)       |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| GM 8863370                  |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| GM 88861800                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM 88861801                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| GM B 040 104 3              |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| GM MTF 0063                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| GM PN 09120541              |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| Hanomag Especificación 511  |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Honda 08261-99964           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Honda 08798-9031            |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Honda MTF 94                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ●                          | ●                          |                      |
| Honda MTF II/SG             |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ●                          | ✓                          |                      |
| Honda MTF-7289              |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Honda MTF-II                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Honda MTF-III               |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Honda Special MTF           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ●                          | ●                          |                      |
| Hyundai/Kia 02200-00130 TOD |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Iveco 18-1805 RAM1          |                 |                |                |                |                |                   |                        | ✓              | ✓              |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco 18-1805 RAM2          |                 |                |                |                |                |                   |                        |                |                | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco 18-1805 RAS1          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   | ✓                   |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (4 / 8)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                          | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|--------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| Iveco 18-1807 MG         |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco 18-1807 MGM        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco 18-1807 MGS        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco 18-1807 MGS1       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Iveco ZC 90              |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| John Deere JDM J11B      | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| John Deere JDM J11D      |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| John Deere JDM J11E      |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| John Deere JDM J20C      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   | ✓                     |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| John Deere JDQ-96        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   | ✓                     |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Komatsu Dresser B22-0003 |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Komatsu Dresser B22-0005 |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Land-Rover STC 9157      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Land-Rover STC 9158      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Land-Rover TYK 500030    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Mack GO-J                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     | ✓                    | ✓                    |                         |                            |                            |                      |
| MAN 3343 Tipo S          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| MAN 341 Tipo E1          | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| MAN 341 Tipo E2          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| MAN 341 Tipo E3          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       | ✓                       |                       |                     |                     | ✓                   |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo E4          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    |                         |                         |                       |                     |                     | ✓                   |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo GA1         |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo MB          |                 |                |                | ☑              |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo Z1          | ✓               | ✓              |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo Z2          | ✓               |                | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         | ☑                       |                       | ☑                   | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo Z3          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo Z4          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 341 Tipo Z5          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            | ☑                    |
| MAN 342 Tipo M1          |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MAN 342 Tipo M2          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         | ☑                       |                       |                     | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| MAN 342 Tipo M3          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ✓                   | ✓                   |                      |                      |                         |                            |                            |                      |
| MAN 342 Type S1          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ☑                   |                     | ✓                   |                      |                      |                         |                            |                            |                      |
| MB 235.0 (DTFR 12B100)   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.1 (DTFR 13B100)   | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (5 / 8)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                               | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|-------------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| MB 235.10                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.11 (DTFR 13B110)       |                 |                | ☑              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         | ✓                          | ✓                          |                      |
| MB 235.4                      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    |                         | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.41 (DTFR 13B160)       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.5 (DTFR 13B170)        |                 |                | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.63                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| MB 235.71                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| MB 235.8 (DTFR 12B140)        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ☑                   | ✓                   | ✓                    |                      |                         |                            |                            |                      |
| Meritor 076M                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| MIL L-2105B                   |                 |                |                |                |                | •                 |                        | •              | •              | •               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| MIL L-2105D                   |                 |                |                |                |                |                   | •                      | •              |                | •               |                | •                 |                       |                        | •                       |                               |                               |                      |                         |                         |                       |                     | •                   |                     |                      |                      |                         |                            |                            |                      |
| MIL PRF-2105E                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | •                   |                     |                      |                      |                         |                            |                            |                      |
| Mitsubishi MZ3005401          |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | •                   | •                   | •                    | •                    |                         |                            | ✓                          |                      |
| Mitsubishi MZ312644           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Nissan 999MP-MTF20P           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Nissan KE91699932R            |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Nissan MT-XZ                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Nissan MTF HQ                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Porsche VW G 052 554 B0       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| PSA 9730 A2                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| PSA 9730-A8                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       | ✓                          |                            |                      |
| PSA B71 2310                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| PSA B71 2315                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| PSA B71 2330                  |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          | ✓                          |                      |
| Renault NFJ                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Renault NFP                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Renault TRX                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Rockwell International O-76   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Rockwell International O-76-E |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| SAE J 2360                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       | •                      |                         | •                             |                               |                      |                         |                         | ✓                     | •                   | ☑                   | •                   | ☑                    | •                    |                         |                            |                            |                      |
| Scania STO 1:0                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       | ☑                      |                         | ✓                             |                               |                      |                         |                         | ☑                     | ☑                   | ✓                   | ☑                   | ✓                    |                      |                         |                            |                            |                      |
| Scania STO 1:1 G              |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ☑*                  | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| Scania STO 2:0 A              |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   | ✓                   |                     |                      | ✓                    |                         |                            |                            |                      |
| Scania STO 2:0 A FS           |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ☑                   |                     |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (6 / 8)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                    | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|------------------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| Scania STO 2:0 G                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   | ✓                   |                     |                      |                      |                         |                            |                            |                      |
| Subaru K0321-F0090                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Suzuki MTF-1                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Suzuki MTF-2                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Suzuki MTF-3                       |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Tatra TDS 100/40                   |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Toyota 08885-00705                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Toyota 08885-81001                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Toyota 08885-81081                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| Toyota JWS 227                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG Audi TL 52 532                 |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW 501.50                      |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 005 000                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 005 100                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 009 317                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 052 145                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 052 157                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 052 171                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 178                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         | ✓                          |                            |                      |
| VAG VW G 052 190                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | •                   |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VAG VW G 052 512                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 527                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 532                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 549                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 554 B0                |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      | ✓                       |                            |                            |                      |
| VAG VW G 052 798                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| VAG VW G 052 911                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| VAG VW G 055 145                   |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| VAG VW G 055 538                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| VAG VW G 50                        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            | ✓                          |                      |
| VAG VW G 51                        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| VAG VW G 52 726                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    | ✓                       |                            |                            |                      |
| VAG VW TL 521 71 (G 052 171 A1/A2) |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| VAG VW TL 521 78 (G 052 178 A2)    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (7 / 8)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                 | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|---------------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| VAG VW TL 525 12 (G 052 512 A2) |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| VAG VW TL 726 (80W)             |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| VME Americas EEMS 19003F        |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Volvo 97305                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97307 (400.000 km)        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               | ☑*                            | ✓                    |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97308                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97309                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Volvo 97310                     |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          | ✓                          |                      |
| Volvo 97311                     |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                |                   | •                     |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Volvo 97312                     |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ☑                   | ✓                   |                      |                      |                         |                            |                            |                      |
| Volvo 97312 (<2013)             |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97315 (400.000 km)        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97317 (GO 102)            |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         | ✓                             |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97318 (800.000 km)        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo 97319 (800.000 km)        |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| Volvo P-N 1161681               |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Volvo P-N 1161745               |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            | ✓                          |                      |
| Volvo P/N 1161838               |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| Volvo P/N 1161839               |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      | ✓                       |                            |                            |                      |
| ZF 8DT (sección de transmisión) |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         | ✓                          |                            |                      |
| ZF TE ML 07A                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 01E                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            | ☑                    |
| ZF TE-ML 01L                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               | ☑                             | ✓                    | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 02B                    | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ☑                     |                     | ☑                   | ✓                   | ✓                    |                      |                         |                            |                            |                      |
| ZF TE-ML 02E                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ☑                   | ✓                   |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 02L                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               | ☑                             | ✓                    | ✓                       |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            | ☑                    |
| ZF TE-ML 04G                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         | ✓                             |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 05A                    |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   | ☑                     | ✓                      |                         |                               |                               |                      |                         |                         | ☑                     |                     | ☑                   | ✓                   |                      | ☑                    |                         |                            |                            |                      |
| ZF TE-ML 05B                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 05C                    |                 |                |                |                |                | ☑                 | ✓                      |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      | ✓                    |                         |                            |                            |                      |
| ZF TE-ML 05D                    |                 |                |                |                |                |                   |                        |                |                |                 |                | ✓                 |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 07A                    |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        |                         |                               | ✓                             |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 08                     | ✓               | ✓              | ✓              |                |                |                   |                        |                | ✓              | ✓               | ✓              |                   |                       |                        |                         |                               | ✓                             | ✓                    | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 12A                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones manuales (MTF) y diferenciales

## Aprobaciones y recomendaciones (8 / 8)

### Leyenda

- (dd. 04/04/2025)
- ☐

 Especificación
- ☒

 Aprobación
- ☒

\* Aprobación pendiente
- ☒

 Recomendación

|                                | Q8 T 35 SAE 80W | Q8 T 35 SAE 90 | Q8 T 35 80W-90 | Q8 T 36 75W-90 | Q8 T 40 75W-90 | Q8 T 45 LS SAE 90 | Q8 T 45 LS SAE 85W-140 | Q8 T 55 80W-90 | Q8 T 55 SAE 90 | Q8 T 55 85W-140 | Q8 T 65 75W-90 | Q8 T 65 LS 75W-90 | Q8 Axle Oil TP 80W-90 | Q8 Axle Oil XG 80W-140 | Q8 Axle Oil GL-5 75W-90 | Q8 Axle Oil XG Synt FE 75W-80 | Q8 Axle Oil XG Synt FE 75W-85 | Q8 Gear Oil V 75W-80 | Q8 Gear Oil V LD 75W-80 | Q8 Gear Oil V LD 75W-90 | Q8 Gear Oil XG 80W-90 | Q8 Trans XGS 75W-85 | Q8 Trans XGS 75W-90 | Q8 Trans XGN 75W-90 | Q8 Trans XGS 75W-140 | Q8 Trans XGR 75W-140 | Q8 Unishift PC Synt 75W | Q8 Unishift PC Synt 75W-80 | Q8 Unishift PC Synt 75W-90 | ZF Ecofluid M 75W-80 |
|--------------------------------|-----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|----------------|----------------|-----------------|----------------|-------------------|-----------------------|------------------------|-------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| ZF TE-ML 12B                   |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| ZF TE-ML 12C                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 12D                   |                 |                |                |                |                |                   |                        |                |                |                 | ✓              |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 12L                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     | ✓                    |                      |                         |                            |                            |                      |
| ZF TE-ML 12M                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       | ✓                      |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 12N                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     | ✓                   |                     |                      | ✓                    |                         |                            |                            |                      |
| ZF TE-ML 13                    |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16A                   | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16B                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        | ✓                       |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16C                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16D                   |                 |                |                |                |                |                   |                        |                |                | ✓               |                |                   |                       | ✓                      |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16E                   |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16F                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       | ✓                   |                     | ✓                   |                      | ✓                    |                         |                            |                            |                      |
| ZF TE-ML 16K                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               | ✓                    | ✓                       | ✓                       |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 16P                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            | ✓                    |
| ZF TE-ML 17A                   | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 17B                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               | ✓              |                   |                       |                        | ✓                       |                               |                               |                      |                         |                         | ✓                     |                     | ✓                   | ✓                   |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 17H                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 19A                   | ✓               | ✓              | ✓              |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 19B                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        | ✓                       |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 19C                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       |                        |                         |                               |                               |                      |                         |                         | ✓                     |                     | ✓                   | ✓                   |                      | ✓                    |                         |                            |                            |                      |
| ZF TE-ML 21A                   |                 |                |                |                |                |                   |                        | ✓              | ✓              | ✓               |                |                   |                       | ✓                      |                         |                               |                               |                      |                         |                         | ✓                     |                     | ✓                   | ✓                   |                      | ✓                    |                         |                            |                            |                      |
| ZF TE-ML 21C                   |                 |                |                |                |                | ✓                 | ✓                      |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF TE-ML 24A                   |                 |                |                |                |                |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               | ✓                             |                      |                         |                         |                       | ✓                   |                     |                     |                      |                      |                         |                            |                            |                      |
| ZF Transmisiones sincronizadas |                 |                |                |                | ✓              |                   |                        |                |                |                 |                |                   |                       |                        |                         |                               |                               |                      |                         |                         |                       |                     |                     |                     |                      |                      |                         |                            |                            |                      |

# Lubricantes para transmisiones automáticas (ATF)

## Aprobaciones y recomendaciones (1 / 9)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                   | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|-----------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Aisin Warner JWS 3309 (T-IV)      |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Aisin Warner JWS 3317             |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| Aisin Warner JWS 3324 (WS)        |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Aisin Warner JWS AW-1             |            |               |              |              |              |              | ✓          | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Aisin Warner JWS AW-2             |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Allison C-3                       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Allison C-4                       | ✓          | ✓             |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Allison TES-228                   |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| Allison TES-295                   |            |               | ✓            | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Allison TES-389                   |            | ✓             | ✓            | ✓            |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Allison TES-468                   |            |               | ✓            |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Allison TES-468TM                 |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Allison TES-668                   |            |               | ☑            |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| American Motors ATF +3 (MS7176-E) |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| AML Oil No. 4G43A9A509/AA/S       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ATF RED 1                         |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ATF RED 1K                        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Audi 5 HP LT71141                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Audi G 060 162                    |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Audi Multitronic                  |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Audi ZF 5 HP 18FL                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Audi ZF 5 HP 19FL                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Audi ZF 5 HP 24A                  |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BAIC CVTF-EX1                     |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Bentley PY112995PA                |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Bentley VW G 052 524 B2           |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| BMW 6-speed DCT                   |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| BMW 83 22 2 167 666               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| BMW ATF 6                         |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| BMW DCTF-1                        |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| BMW DCTF-1+                       |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| BMW DCTF-2                        |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                              | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|----------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| BMW Drivelogic 7-speed (Getrag)              |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| BMW ETL 8072B                                |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| BMW MTF LT-5                                 |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| BMW/MINI 7045E                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 026 922                     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 136 376                     |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 142 516                     |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 163 514                     |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 397 114                     |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 402 413                     |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 403 249                     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI 83 22 0 429 154                     |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| BMW/MINI ATF 2                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ATF 3+                              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ATF 6                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ATF 7                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI BMW LT71141 (ZF 5 HP 18FL/19FL/24A) |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ETL 8072B                           |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI EZL 799                             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| BMW/MINI EZL 799A                            |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| BMW/MINI JWS 3309 (T-IV)                     |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| BMW/MINI LA 2634                             |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI T-IV                                |            |               |              |              |              |              |            |            | •           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ZF 5 HP 19FL                        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ZF 5 HP 24A                         |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ZF 5 HP 30                          |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ZF 5HP18FL                          |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| BMW/MINI ZF CVT V1                           |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| BMW/MINI ZF HP 24                            |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Borg Warner Wet DCT                          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Bosch TE-ML 09                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Bugatti Veyron (DCT húmedo)                  |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| BYD 6DT35                                    |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |

Aprobaciones y recomendaciones (2 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                      | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|--------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| BYD DCT                              |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| BYD Q/BYD-A1909.0058-2013            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Caterpillar TO-2                     | ✓          |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Changan DCTF                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Chery CVT                            |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Chrysler ATF+                        |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler ATF+2                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler ATF+3                       |            | ✓             |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler ATF+4                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler CVT+4                       |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Chrysler JWS 3309                    |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler MOPAR AS 68 RC (T-IV)       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler MOPAR AS 69 RC (T-IV)       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler MOPAR SP IV                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler MS-6704A                    | ✓          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Chrysler MS-7176E                    |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| Chrysler MS-9602                     |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| Chrysler NAG-1                       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler NS-2                        |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Chrysler P-N 68049954AA              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P-N 68171869AA              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P-N 68218925AB              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 05127382AA              |            |               |              |              |              |              | ✓          | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 68043742AA              |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 68044345EA              |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Chrysler P/N 68044345GA              |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Chrysler P/N 68157995AA              |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 68157995AB              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 68171866AA              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler P/N 68218925AA              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Chrysler Powershift 6-speed (Getrag) |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Clark TLC-25 3M 8-83                 | ✓          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Daewoo LT71141                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                          | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Daihatsu Alumix ATF Multi                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Daihatsu Ammix CVTF DFE                  |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Daihatsu Ammix ATF D-II                  |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Daihatsu Ammix ATF D-III SP              |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Daihatsu Ammix CVTF DC                   |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Daihatsu Ammix CVTF DFC                  |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Daihatsu Fluid TC                        |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Daimler Truck AG DTFR 13C170 (MB 236.9)  |            |               |              |              | ✓            |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Daimler Truck AG DTFR 13C180 (MB 236.91) |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Daimler Truck AG DTFR 13C190 (MB 236.92) |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| DANA OHTM-TO                             |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| DFSK CVTF-EX1                            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Dodge CVTF+4                             |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Dodge NS-2                               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Eaton Eatpm PS-278                       |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Esso LT 71141                            |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ferrari 7 velocidades (Getrag)           |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  | ✓                |                    |
| Ferrari TF DCT-3                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Fiat 9.55550-AG1                         |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Fiat 9.55550-AG2                         |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV1                         |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV2                         |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV3                         |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV4                         |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV5                         |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Fiat 9.55550-AV6                         |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Fiat 9.55550-HE2                         |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  | ✓                |                    |
| Fiat 9.55550-MZ6                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Fiat CVT NG                              |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Fiat JWS 3309 T-IV                       |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Fiat Tutela Car CVT NG                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Ford ATF C-ML5                           |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Ford EAP -M2C166H                        |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |

Aprobaciones y recomendaciones (3 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                           | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|---------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Ford Escape Hybrid eCVT   |            |               |              |              |              |              |            |            |             |                 |                 | ✓                | ✓                |                  |                    |
| Ford F-DC                 |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford FNRS                 |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford JWS 3309             |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford M2C138-CJ            | •          |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford M2C166-H             | •          |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford M2C185-A             | •          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford M2C186-A             | •          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford M2C200-D2            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford M2C202-B             |            |               |              |              |              |              | ✓          |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford M2C218-A1            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford M2C919-E             |            |               |              |              |              |              | ✓          |            |             |                 |                 | ✓                |                  |                  |                    |
| Ford M2C922-A1            |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Ford M2C924-A (XT-8-QAW)  |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Ford M2C936-A             |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Ford M2C938-A (Mercon LV) |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford Mercon               |            | ✓             |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford Mercon LV            |            |               |              |              |              |              |            | ✓          |             |                 |                 | ✓                |                  |                  |                    |
| Ford Mercon V             |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  | ✓                |                  |                    |
| Ford P/N 1490761          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford P/N 1490763          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford Part # KU7J M2C218AA |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford Powershift           |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  | ✓                |                    |
| Ford SQM-2C9010-A         | •          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford SQM-2C9010-B         | •          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford XL-12                |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford XT-11-QDC            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ford XT-2-QDX             |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford XT-2-QDX (M)         |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford XT-2-QSM (S)         |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford XT-5-QM              |            |               |              | ✓            |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Ford XT-6-DSP             |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Ford XT-8-QAW             |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                               | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|-----------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Ford XT-9-QMM5                                |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Ford/Nissan Powershift de 6 velocidades (GFT) |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Fuchs Titan FFL-6                             |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Fuchs Titan FFL-8                             |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |
| Fujijyuuko i-CVTF FG                          |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Fuso ATF-A4                                   |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  | ✓                |                  |                    |
| Fuso ATF-II                                   |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Fuso ATF-SPIII                                |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Geely 7 Speed                                 |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| GM 1940700                                    |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 1940713                                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| GM 1940714                                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| GM 1940767                                    |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 21005966 (Transaxle)                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 22717466                                   |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 6137M                                      | •          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| GM 88863400                                   |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 88863401                                   |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 88900925                                   |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 93160393                                   |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM 9986195 (Aisin AW, JWS 3309)               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM ATF Type A (Suffix A)                      |            | ✓             |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM AW1                                        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM CVTF I-Green2                              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| GM DEX-CVT                                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| GM Dexron II                                  |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron II D                                | ✓          |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron II E                                |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron III                                 |            | ✓             |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron III F                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron III G                               |            | ✓             | ✓            |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Dexron III H                               |            | ✓             |              | ✓            |              |              | ✓          |            | ☑           |                 |                 |                  |                  |                  |                    |
| GM Dexron VI                                  |            |               |              |              |              |              |            | ✓          | ☑           |                 |                 |                  | ✓                |                  |                    |

Aprobaciones y recomendaciones (4 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                     | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|-------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| GM GMN10060                         |            |               |              |              |              |              |            | •          |             |                 |                 |                  |                  |                  |                    |
| GM HP CVT                           |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| GM TASA                             |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM Transfer Case (Auto Trak II)     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| GM VT 40                            |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Great Wall DCT                      |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Hino Blue Ribon ATF                 |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Honda ATF Ultra II                  |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Honda CVT                           |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Honda DW-1                          |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Honda e-HEV                         |            |               |              |              |              |              |            |            |             |                 |                 | ✓                | ✓                |                  |                    |
| Honda Fit                           |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Honda HCF2                          |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Honda HMMF                          |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Honda iMMD                          |            |               |              |              |              |              |            |            |             |                 |                 | ✓                | ✓                |                  |                    |
| Honda Jazz                          |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Honda Type 3.0                      |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Honda Type 3.1                      |            |               |              |              |              |              |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Honda Type 3.1 (08200-9017 USA)     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Honda Type 3.1 (08263-999-01HE (EU) |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Honda Z-1 (excepto en CVT)          |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Honda Z-1 (modelo CVT)              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Hyundai/Kia 040000C90SG             |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia 04300-2N110 WDHO-1      |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Hyundai/Kia CVT-1                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Hyundai/Kia Dex-II                  |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia DW-1                    |            |               |              |              |              | ✓            |            |            |             |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia JWS 3314                |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia NUMM040 CH20 Red-1      |            |               |              |              |              |              |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Hyundai/Kia NWS-9638                |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Hyundai/Kia NWS-9638 T-5            |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia SP-II                   |            |               |              |              |              | ✓            |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Hyundai/Kia SP-III (CVT model)      |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                          | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Hyundai/Kia SP-III (except in CVT's)     |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Hyundai/Kia SP-IV                        |            |               |              |              |              |              |            | ✓          | ✓           | ✓               |                 |                  |                  |                  |                    |
| Hyundai/Kia SP-IV M                      |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  | ✓                |                  |                    |
| Hyundai/Kia SP-IV RR                     |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Hyundai/Kia SP4-M                        |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Hyundai/Kia SPH-IV                       |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Idemitsu CVTF-EX1                        |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Idemitsu K17 3100 PL085                  |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu ATF WSI                            |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu Besco 08200-9001                   |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu Besco ATF SP                       |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu Besco ATF-II                       |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu Besco ATF-III                      |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Isuzu Besco SCS Fluid                    |            |               |              |              |              |              | ✓          |            |             |                 |                 | ✓                |                  |                  |                    |
| Iveco 18-1807 AG2                        | ✓          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Iveco 18-1807 AG3/I                      |            |               | ✓            |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Iveco 18-1807 AG3/IV                     |            |               | ✓            |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Jaguar Land Rover 02JDE26444             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover ATF 3403 M115          |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover ATF LT71141 (ZF 5HP24) |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover Fluid 8432             |            |               |              |              |              |              | ✓          | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover JLM 20238              |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover JLM 20292              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover K17                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover LR0022460              |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover LR023288               |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Jaguar Land Rover M2C 922-A1             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Jaguar Land Rover TYK500050              |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| JASO M315 Type 1A                        |            |               |              | ✓            |              |              | ✓          | •          |             | ✓               | ✓               |                  |                  |                  |                    |
| JASO M315 Type 1A LV                     |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  | ✓                |                  |                    |
| JASO M315 Type 2A                        |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Jatco CVT 8 Hybrid                       |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  | ✓                |                    |
| Jatco JR712E                             |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |

## Aprobaciones y recomendaciones (5 / 9)

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|  | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|

|                          |   |    |   |  |   |  |   |   |   |   |  |   |   |  |   |
|--------------------------|---|----|---|--|---|--|---|---|---|---|--|---|---|--|---|
| Jeep ATF +3              |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Jeep CVT+4               |   |    |   |  |   |  |   |   |   | ✓ |  |   |   |  |   |
| Jeep NS-2                |   |    |   |  |   |  |   |   |   | ✓ |  |   |   |  |   |
| Komatsu Dresser B22-0004 | ✓ |    |   |  |   |  |   |   |   |   |  |   |   |  |   |
| Land-Rover LR0234288     |   |    |   |  |   |  | ✓ |   |   |   |  |   |   |  |   |
| Land-Rover TYK500050     |   |    |   |  |   |  | ✓ |   |   |   |  |   |   |  |   |
| Lexus Fluid FE           |   |    |   |  |   |  |   |   |   | ✓ |  |   | ✓ |  |   |
| Lexus Fluid TC           |   |    |   |  |   |  |   |   |   | ✓ |  |   | ✓ |  |   |
| Lexus JWS 3309           |   |    |   |  |   |  |   |   | ✓ |   |  |   |   |  |   |
| MAN 339 Tipo A           |   |    |   |  |   |  |   | ✓ |   |   |  |   |   |  |   |
| MAN 339 Tipo e Z3        |   |    | ✓ |  | ✓ |  | ✓ |   |   |   |  |   |   |  |   |
| MAN 339 Tipo L1          |   | ☑  |   |  |   |  |   |   |   |   |  |   |   |  |   |
| MAN 339 Tipo L2          | ☑ |    |   |  |   |  |   |   |   |   |  |   |   |  |   |
| MAN 339 Tipo V1          | ☑ |    | ✓ |  |   |  | ✓ |   |   |   |  |   |   |  |   |
| MAN 339 Tipo V2          |   | ☑  | ✓ |  | ✓ |  | ✓ |   |   |   |  |   |   |  |   |
| MAN 339 Tipo Z1          | ☑ |    |   |  |   |  | ✓ |   |   |   |  |   |   |  |   |
| MAN 339 Tipo Z12         |   |    |   |  | ✓ |  |   |   |   |   |  |   |   |  |   |
| MAN 339 Tipo Z13         |   |    |   |  |   |  |   |   |   |   |  |   |   |  | ✓ |
| MAN 339 Tipo Z2          |   | ☑  |   |  |   |  | ✓ |   |   |   |  |   |   |  |   |
| MAN 339 Tipo Z4          |   |    |   |  |   |  |   |   |   |   |  |   |   |  | ✓ |
| Maserati P/N 231603      |   |    |   |  |   |  |   | • | ✓ |   |  | ✓ |   |  |   |
| Mazda ATF 3317           |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF A7             |   |    |   |  |   |  |   |   | ✓ |   |  |   |   |  |   |
| Mazda ATF D-II           |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF F-1            |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF FZ             |   |    |   |  |   |  | ✓ | ✓ | ✓ |   |  |   |   |  |   |
| Mazda ATF M-III          |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF M-V            |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF N-1            |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda ATF S-1            |   |    |   |  |   |  | ✓ |   | ✓ |   |  |   |   |  |   |
| Mazda JWS 3320           |   |    |   |  |   |  |   |   |   | ✓ |  |   |   |  |   |
| Mazda SKYACTIVE-HYBRID   |   |    |   |  |   |  |   |   |   |   |  | ✓ |   |  |   |
| MB 236.1 (DTFR 13C100)   | ✓ | ☑* |   |  |   |  |   |   |   |   |  |   |   |  |   |

### Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|  | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|

|                                   |   |    |   |  |  |  |   |   |   |   |   |   |   |   |  |
|-----------------------------------|---|----|---|--|--|--|---|---|---|---|---|---|---|---|--|
| MB 236.10                         |   | ✓  |   |  |  |  | ✓ |   |   |   |   |   |   |   |  |
| MB 236.11 (DTFR 13C110)           |   | ✓  |   |  |  |  |   |   |   |   |   |   |   |   |  |
| MB 236.12                         |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| MB 236.14                         |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| MB 236.15                         |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| MB 236.17                         |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| MB 236.20                         |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| MB 236.21 (DTFR 13C130)           |   |    |   |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| MB 236.22                         |   |    |   |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| MB 236.24                         |   |    |   |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| MB 236.25                         |   |    |   |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| MB 236.3                          |   |    |   |  |  |  |   |   | ✓ |   |   |   |   |   |  |
| MB 236.41                         |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| MB 236.5                          | ✓ | ✓  |   |  |  |  |   |   |   |   |   |   |   |   |  |
| MB 236.7 (DTFR 13C140)            | ✓ |    |   |  |  |  |   |   |   |   |   |   |   |   |  |
| MB 236.9 (DTFR 13C170)            |   | ☑* |   |  |  |  | ✓ |   |   |   |   |   |   |   |  |
| MB 236.91 (DTFR 13C180)           |   |    | ✓ |  |  |  |   |   |   |   |   |   |   |   |  |
| MB 239.21                         |   |    |   |  |  |  |   |   |   |   | ✓ |   |   |   |  |
| MB ZF 4HP20                       |   |    |   |  |  |  |   |   | ✓ |   |   | ✓ |   |   |  |
| MG/Rover EM-CVT                   |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Mitsubishi ATF-J3                 |   |    |   |  |  |  |   | ✓ |   |   |   |   |   |   |  |
| Mitsubishi CVTF ECO J4            |   |    |   |  |  |  |   |   |   | ✓ |   |   | ✓ |   |  |
| Mitsubishi CVTF-J1                |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Mitsubishi CVTF-J4                |   |    |   |  |  |  |   |   |   | ✓ |   |   | ✓ |   |  |
| Mitsubishi CVTF-J4+               |   |    |   |  |  |  |   |   |   | ✓ |   |   | ✓ |   |  |
| Mitsubishi Diaqueen ATF MA1       |   |    |   |  |  |  |   |   | ✓ |   |   | ✓ |   |   |  |
| Mitsubishi Diaqueen ATF PA        |   |    |   |  |  |  |   | ✓ | ✓ |   |   | ✓ |   |   |  |
| Mitsubishi Diaqueen AW            |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| Mitsubishi Diaqueen CVT Fluid J1  |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Mitsubishi Diaqueen CVT Fluid J4  |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Mitsubishi Diaqueen CVT Fluid J4+ |   |    |   |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Mitsubishi Diaqueen J2            |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |
| Mitsubishi Diaqueen J3            |   |    |   |  |  |  |   | ✓ | ✓ |   |   |   |   |   |  |

Aprobaciones y recomendaciones (6 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                              | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|----------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Mitsubishi Diaqueen NS-2                     |            |               |              |              |              |              | ✓          |            | ✓           |                 | ●               |                  |                  |                  |                    |
| Mitsubishi Diaqueen SK                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Mitsubishi Diaqueen SP-II                    |            |               |              |              |              |              | ✓          |            |             | ✓               |                 |                  |                  |                  |                    |
| Mitsubishi Diaqueen SP-III                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Mitsubishi Diaqueen SP-III (except in CVT's) |            |               |              |              |              | ✓            |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Mitsubishi Diaqueen SP-IV                    |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Mitsubishi Diaqueen SSTF-1                   |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Mitsubishi MZ320065                          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Mitsubishi TC-SST 6-speed (GFT)              |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Mopar CVT+4                                  |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Nissan Altima Hybrid                         |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Nissan Altima Hybrid with eCVT               |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Nissan KTF-1                                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic C                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic D                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic Fluid S                         |            |               |              |              |              |              | ✓          |            |             |                 | ✓               |                  |                  |                  |                    |
| Nissan Matic J                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic K                               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic P                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic S                               |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan Matic W                               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Nissan N-CVT                                 |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Nissan Note e-POWER DAA-HE12                 |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Nissan NS-1                                  |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Nissan NS-2                                  |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Nissan NS-2V                                 |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Nissan NS-3                                  |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Opel/Vauxhall 7-speed CVT                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Opel/Vauxhall 95529854                       |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| PKD Aceite de transmisión DCT para ZF        |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Pentosin FFL-6                               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Pentosin FFL-8                               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Porsche #999.917.080.00                      |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                     | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|-------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Porsche ATF 3403-M115               |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Porsche LT71141 (ZF 5HP19FL, 5HP20) |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Porsche P/N 000 043 201 44          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Porsche P/N 000 043 205 09          |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Porsche P/N 000 043 205 28          |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Porsche P/N 000 043 304 00          |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Porsche P/N 999 917 080 01          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Porsche P/N 999 917 547 00          |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Porsche PDK DCT                     |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Porsche T-IV (JWS 3309)             |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Porsche Z 000169756                 |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| PSA 9730.AE (AL4 automatic gearbox) |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| PSA 9734.S2                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| PSA B71 2340                        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| PSA DCS 6-speed (GFT)               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| PSA JWS 3309                        |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| PSA LT 71141                        |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| PSA LT71141 (ZF 5HP19FL, 5HP20)     |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| PSA P-N 16 350 56 080               |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| PSA S71 2340                        |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| PSA Standard 9735EF                 |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| PSA Z 000169756                     |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| PSA ZF 4HP20                        |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Punch CVTF-EX1                      |            |               |              |              |              |              |            |            |             |                 | ✓               |                  | ✓                |                  |                    |
| Renault DC4 (BOT 450)               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Renault DPO/AL4                     |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Renault DW5                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Renault DW6                         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Renault EDC 6 speed (Getrag)        |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Renault EDC 7 speed                 |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Renault Matic CVT                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Renault Matic CVT CK                |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Renault Matic CVT FK                |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |

Aprobaciones y recomendaciones (7 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                            | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|----------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Renault Matic CVT SK       |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Renault Matic D2           |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Renault Samsung SATF-D     |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Renault Talisman R7D       |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Saab AW-1                  |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Saab P-N 45 30 09 800      |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Saab P-N 93 160 548        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Saab P/N 93 160 393        |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Saab P/N 93 165 147        |            |               |              |              |              |              | ✓          | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| Saab T-IV (JWS 3309)       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Saturn CVTF I-Green2       |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Saturn DEX-CVT             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Saturn T-IV (JWS 3309)     |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Scion (all vehicles)       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell 3403                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell Green 1V             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Shell L 12108              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell LA 2634              |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell M-1375.4             |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell M115                 |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Shell TF DCT-F3            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Ssang Yong DSIH 5M-66      |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Subaru ATF                 |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| Subaru ATF-SAT             |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Subaru ATF-AW              |            |               |              |              |              |              |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Subaru ATF-HP              |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Subaru CV-30               |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Subaru Dexron II           |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Subaru ECVT                |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Subaru High Torque CVTF-LV |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Subaru iCVT                |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Subaru iCVT FG             |            |               |              |              |              |              |            |            |             | ✓               |                 |                  | ✓                |                  |                    |
| Subaru K0140Y0700          |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                                | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|------------------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Subaru K0421Y0700                              |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Subaru K0425Y0710                              |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Subaru K0425Y0711                              |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Subaru K0710Y0700                              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Subaru Lineartronic chain CVT                  |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Subaru Lineartronic Chain CVT 3 Fluid          |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Subaru Lineartronic chain CVT II Fluid         |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Subaru Lineartronic High Torque (HT) CVT Fluid |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Subaru NS-2                                    |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Subaru Opel Original ATF 09117946              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Subaru Opel Original ATF 93160393              |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Suzuki AT OIL 5D06                             |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF 2326                                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF 2384K                               |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF 3309                                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF 3314                                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF 3317                                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki ATF AW-1                                |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| Suzuki CVT Green 1                             |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Suzuki CVT Green 1V                            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Suzuki CVT Green 2                             |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| Suzuki CVTF 3320                               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Suzuki CVTF 4401                               |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Suzuki CVTF TC                                 |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Suzuki CVTF-II                                 |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Suzuki NS-2                                    |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Tesla Model 3                                  |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  | ✓                |                    |
| Tesla Model S                                  |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  | ✓                |                    |
| Tesla Model X                                  |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  | ✓                |                    |
| Texaco 7045E                                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Texaco 8072B                                   |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Texaco N402                                    |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Toyota ATF D-III                               |            |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |

Aprobaciones y recomendaciones (8 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|  | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|

|                                              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |  |
|----------------------------------------------|--|--|--|--|--|--|---|---|---|---|---|---|---|---|--|
| Toyota ATF DII                               |  |  |  |  |  |  | ✓ |   |   |   |   |   |   |   |  |
| Toyota ATF T-IV                              |  |  |  |  |  |  | ✓ |   |   |   |   |   |   |   |  |
| Toyota ATF T-III                             |  |  |  |  |  |  | ✓ |   |   |   |   |   |   |   |  |
| Toyota ATF WS including Toyota hybrid system |  |  |  |  |  |  | ✓ | ✓ | ✓ |   |   | ✓ |   |   |  |
| Toyota CVTF FE                               |  |  |  |  |  |  |   |   |   | ✓ |   |   | ✓ |   |  |
| Toyota CVTF TC                               |  |  |  |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| Toyota D-II                                  |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| Toyota D-III                                 |  |  |  |  |  |  |   |   | ✓ |   |   |   |   |   |  |
| Toyota Hybrid                                |  |  |  |  |  |  |   |   | ✓ |   |   |   |   |   |  |
| Toyota Noah                                  |  |  |  |  |  |  |   |   |   |   |   | ✓ | ✓ |   |  |
| Toyota Prius                                 |  |  |  |  |  |  |   |   |   |   |   | ✓ | ✓ |   |  |
| Toyota T-I                                   |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| Toyota T-II                                  |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| Toyota T-III                                 |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| Toyota T-IV                                  |  |  |  |  |  |  | ✓ |   | ✓ |   |   | ✓ |   |   |  |
| Toyota THS 5th Gen.                          |  |  |  |  |  |  |   |   |   |   |   | ✓ | ✓ |   |  |
| Toyota THSII                                 |  |  |  |  |  |  |   |   |   |   |   | ✓ | ✓ |   |  |
| Toyota Voxy                                  |  |  |  |  |  |  |   |   |   |   |   | ✓ | ✓ |   |  |
| VAG 6 velocidades                            |  |  |  |  |  |  |   |   |   |   | ✓ |   |   |   |  |
| VAG 7 velocidades                            |  |  |  |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| VAG Audi G 052 512                           |  |  |  |  |  |  |   |   |   |   | ✓ |   |   |   |  |
| VAG Audi Multitronic                         |  |  |  |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| VAG Audi S-Tronic 7                          |  |  |  |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| VAG DSG7                                     |  |  |  |  |  |  |   |   |   |   | ✓ |   |   | ✓ |  |
| VAG LT 71141 (ZF 5HP 18FL/19FL/24A)          |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| VAG VW G 052 025                             |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| VAG VW G 052 055                             |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| VAG VW G 052 162 (ZF LifeguardFluid 5)       |  |  |  |  |  |  | ✓ |   | ✓ |   |   |   |   |   |  |
| VAG VW G 052 180                             |  |  |  |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| VAG VW G 052 182                             |  |  |  |  |  |  |   |   |   |   |   | ✓ |   |   |  |
| VAG VW G 052 182 A2                          |  |  |  |  |  |  |   |   |   |   |   | ✓ |   |   |  |
| VAG VW G 052 516                             |  |  |  |  |  |  |   |   |   | ✓ |   |   |   |   |  |
| VAG VW G 052 524 B2                          |  |  |  |  |  |  |   |   |   |   | ✓ |   |   |   |  |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|  | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
|--|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|

|                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAG VW G 052 529                            |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |
| VAG VW G 052 529 A2                         |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |
| VAG VW G 052 529 A6                         |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |
| VAG VW G 052 533                            |   |   |   |   |   |   |   | ✓ | ✓ |   |   |   |   |   |   |
| VAG VW G 052 536                            |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |
| VAG VW G 052 990                            |   |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |   |
| VAG VW G 053 001                            |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |   |
| VAG VW G 053 025                            |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |   |
| VAG VW G 055 005 (ZF LifeguardFluid 6)      |   |   |   |   |   |   | ✓ | ✓ | ✓ |   |   |   |   |   |   |
| VAG VW G 055 025 (JWS 3309)                 |   |   |   |   |   |   | ✓ |   | ✓ |   |   |   |   |   |   |
| VAG VW G 055 162 (ZF LifeguardFluid 6 Plus) |   |   |   |   |   |   |   | ✓ | ✓ |   |   |   |   |   |   |
| VAG VW G 055 529                            |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |
| VAG VW G 055 536                            |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |
| VAG VW G 055 540                            |   |   |   |   |   |   | ✓ | ✓ | ✓ |   |   |   |   |   |   |
| VAG VW G 060 162 (ZF LifeguardFluid 8)      |   |   |   |   |   |   | ✓ | ✓ | ✓ |   |   |   | ✓ |   |   |
| VAG VW G US 000 162                         |   |   |   |   |   |   | ✓ |   | ✓ |   |   |   |   |   |   |
| VAG VW Golf GTE DQ400E                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |
| VAG VW TL 521 16                            |   |   |   |   |   |   |   |   |   | ✓ |   |   | ✓ |   |   |
| VAG VW TL 521 62                            |   |   |   |   |   |   | ✓ |   | ✓ |   |   |   |   |   |   |
| VAG VW TL 521 80                            |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |
| VAG VW TL 521 82                            |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |
| VAG VW TL 525 29                            |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |
| Vickers I-286-S                             |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |
| Vickers M2950-S                             |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |
| VME Americas EEMS 19088G                    | ✓ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Voith 150.014524.xx                         |   |   |   |   | ☑ |   |   |   |   |   |   |   |   |   |   |
| Voith 3.90 -8e_ 1997                        |   |   |   |   |   | ☑ |   |   |   |   |   |   |   |   |   |
| Voith Frenos hidrodinámicos                 |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |   |   |
| Voith H55.6335.xx                           | ☑ | ✓ |   | ✓ |   |   | ✓ |   | ✓ |   |   |   |   |   |   |
| Voith H55.6336.xx                           |   | ☑ | ☑ |   |   |   |   |   |   |   |   |   |   |   |   |
| Voith Svc Bltn #013                         |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |
| Voith Svc Bltn #118                         |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |
| Voith Turbo 3625-006072 (Type S/TP/DTP/VIR) |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |   |   |

Aprobaciones y recomendaciones (9 / 9)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                         | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|-----------------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| Voith Turbo 3625-006073 (Type R)        |            |               |              |              |              | ✓            |            |            |             |                 |                 |                  |                  |                  |                    |
| Voith Turbo Couplings                   |            |               |              |              |              | ✓            |            |            |             |                 |                 |                  |                  |                  |                    |
| Voith US SB 013/118                     | ☑          | ☑             | ✓            |              | ☑            |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Volvo 97325                             | ✓          |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo 97335                             | ✓          |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo 97340                             | ✓          |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Volvo 97341 (AT 101)                    |            | ☑             |              |              | ✓            |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Volvo 97342 (AT 102)                    |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo CE 97340                          |            |               |              |              |              |              |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| Volvo CVT                               |            |               |              |              |              |              |            |            |             |                 |                 |                  | ✓                |                  |                    |
| Volvo CVT 4959                          |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| Volvo P-N 1161521                       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo P/N 1161540                       |            |               |              |              |              |              | ✓          |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo P/N 1161621                       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo P/N 1161640                       |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo P/N 1161838                       |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Volvo P/N 1161839                       |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| Volvo P/N 31256675                      |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo P/N 31256774                      |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| Volvo Powershift de 6 velocidades (GFT) |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  | ✓                |                    |
| ZF 3HP                                  |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF 4HP                                  |            | ✓             |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF 4HP20/AL4                            |            |               |              |              |              |              | ✓          |            |             |                 |                 |                  |                  |                  |                    |
| ZF 5HP                                  |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF 6HP                                  |            | ✓             |              |              |              |              | ✓          | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| ZF 8DT (sección de embrague)            |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| ZF 8HP                                  |            |               |              |              |              |              | ✓          | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| ZF 9HP                                  |            |               |              |              |              |              |            | ✓          | ✓           |                 |                 |                  |                  |                  |                    |
| ZF LifeguardFluid 5                     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF LifeguardFluid 6                     |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF LifeguardFluid 6 Plus                |            |               |              |              |              |              |            |            | ✓           |                 |                 |                  |                  |                  |                    |
| ZF LifeguardFluid 8                     |            |               |              |              |              |              |            |            | ✓           |                 |                 | ✓                |                  |                  |                    |
| ZF LifeguardFluid 9                     |            |               |              |              |              |              |            |            |             |                 |                 | ✓                |                  |                  |                    |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                  | Q8 Auto 14 | Q8 Auto 15 ED | Q8 Auto 15 S | Q8 Auto 15 A | Q8 Auto 15 V | Q8 Auto 26 R | Q8 Auto JK | Q8 Auto MV | Q8 Auto DVI | Q8 Auto CVT EVO | Q8 Auto DCT EVO | Q8 Auto H-EV ATF | Q8 Auto H-EV CVT | Q8 Auto H-EV DCT | ZF Ecofluid A Life |
|----------------------------------|------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------------|-----------------|------------------|------------------|------------------|--------------------|
| ZF No. S671 090 170 (LGF 5)      |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF No. S671 090 281 (LGF 6 plus) |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF No. S671 090 312 (LGF 8)      |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF No. S671 090 255 (LGF 6)      |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 02F                     | ✓          | ✓             |              |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 03D                     | ✓          | ✓             |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 04D                     | ☑          | ☑             |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  | ☑                  |
| ZF TE-ML 05L                     |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| ZF TE-ML 09                      | ✓          | ✓             |              |              |              |              |            | ✓          | •           | ✓               |                 |                  |                  |                  |                    |
| ZF TE-ML 11                      |            |               |              |              |              |              |            |            |             |                 | ✓               |                  |                  |                  |                    |
| ZF TE-ML 11A                     |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| ZF TE-ML 11B                     |            |               |              |              |              |              |            | ✓          |             | ✓               |                 |                  |                  |                  |                    |
| ZF TE-ML 14A                     | ☑          |               |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 14B                     |            | ☑             |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 14C                     |            |               | ✓            |              | ✓            |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 14E                     |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  | ☑                  |
| ZF TE-ML 16L                     |            | ✓             |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 16N                     |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  | ☑                  |
| ZF TE-ML 16Q                     |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  | ☑                  |
| ZF TE-ML 16S                     |            |               | ☑            |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 17C                     | ✓          | ✓             |              |              |              |              |            | ✓          |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 20C                     |            |               | ☑            |              | ✓            |              |            |            |             |                 |                 |                  |                  |                  |                    |
| ZF TE-ML 20F                     |            |               |              |              |              |              |            |            |             |                 |                 |                  |                  |                  | ✓                  |
| ZF TE-ML 21L                     |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |
| ZF TE-ML 25C                     |            |               | ☑            |              |              |              |            |            |             |                 |                 |                  |                  |                  |                    |
| Zotye CVT                        |            |               |              |              |              |              |            |            |             | ✓               |                 |                  |                  |                  |                    |

Aprobaciones y recomendaciones (1 / 5)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                     | Q8 T 1000 (D) 10W-30 | Q8 T 1000 15W-40 | Q8 T 5000 10W-40 | Q8 T 2200 | Q8 T 2300 CVT HF 10W-30 | Q8 T 2300 CVT 10W-30 | Q8 T 2300 CVT 15W-40 | Q8 T 2500 | Q8 T 2600 WB Axle 80W-140 | Q8 T 3000 | Q8 T 3500 |
|---------------------|----------------------|------------------|------------------|-----------|-------------------------|----------------------|----------------------|-----------|---------------------------|-----------|-----------|
| STOU                | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |
| UTTO                |                      |                  |                  | ✓         | ✓                       | ✓                    | ✓                    | ✓         | ✓                         | ✓         | ✓         |
| Hidráulico (ISO VG) | 68                   | 100              | 100              | 46-68     | 68                      | 68                   | 100                  | 46        | 220-320                   | 68-100    | 32        |
| Transmisión (SAE)   | 75W-85               | 80W-90           | 75W-90           | 75W-80    | 75W-85                  | 75W-85               | 80W-90               | 75W       | 80W-140                   | 80W-80    |           |
| Motor (SAE)         | 10W-30               | 15W-40           | 10W-40           | 10W-30(*) | 10W-30(*)               | 10W-30(*)            | 15W-40(*)            | 10W-20(*) | (*)                       | 15W-30(*) | (*)       |
| Frenos húmedos      | ✓                    | ✓                | ✓                | ✓         | ✓                       | ✓                    | ✓                    | ✓         | ✓                         | ✓         | ✓         |
| Hidráulico          | ✓                    | ✓                | ✓                | ✓         | ✓                       | ✓                    | ✓                    | ✓         | ✓                         | ✓         | ✓         |
| Transmisión         | ✓                    | ✓                | ✓                | ✓         | ✓                       | ✓                    | ✓                    | ✓         | ✓                         | ✓         | ✓         |
| Motor               | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |

(\*)Solo para comparar.No utilizar lubricantes UTTO como aceite de motor!

|                                                                     |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|--|
| ACEA E3                                                             |   | ✓ | • |   |   |   |   |   |   |   |  |
| ACEA E7 nivel de control de hollín, desgaste y limpieza de pistones | ✓ | ✓ | ✓ |   |   |   |   |   |   |   |  |
| AGCO CVT ML 200                                                     |   | ✓ | ✓ |   |   | ✓ | ✓ |   |   |   |  |
| Allison C-2                                                         |   |   |   |   |   |   |   | ✓ |   |   |  |
| Allison C-3                                                         |   |   | ✓ |   |   |   |   | ✓ |   | ✓ |  |
| Allison C-4                                                         | ✓ | ✓ | ✓ | ✓ |   |   |   | ✓ |   |   |  |
| API CE                                                              |   | • |   |   |   |   |   |   |   |   |  |
| API CF                                                              |   | • |   |   |   |   |   |   |   |   |  |
| API CF-4                                                            | • |   | • |   |   |   |   |   |   |   |  |
| API CI-4 nivel de control de hollín                                 | ✓ | ✓ | ✓ |   |   |   |   |   |   |   |  |
| API GL-3                                                            |   | • |   |   |   |   |   |   |   |   |  |
| API GL-4                                                            | • | • | • | • | ✓ | • | • | • | ✓ | • |  |
| API SF                                                              | • | • | • |   |   |   |   |   |   |   |  |
| Case MS 1118                                                        | ✓ |   | ✓ |   |   |   |   |   |   |   |  |
| Case MS 1206                                                        |   |   |   |   |   |   |   | ✓ |   |   |  |
| Case MS 1207                                                        | ✓ |   | ✓ | ✓ |   | ✓ |   | ✓ |   | ✓ |  |
| Case MS 1209                                                        | ✓ |   | ✓ | ✓ |   | ✓ |   | ✓ |   | ✓ |  |
| Case MS 1210                                                        |   |   |   | ✓ |   | ✓ |   | ✓ |   |   |  |
| Case MS 1230                                                        |   |   |   | ✓ |   |   |   |   |   |   |  |
| Case MS 1317                                                        |   |   |   |   |   |   |   |   | ✓ |   |  |

## Aprobaciones y recomendaciones (2 / 5)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                   | Q8 T 1000 (D) 10W-30 | Q8 T 1000 15W-40 | Q8 T 5000 10W-40 | Q8 T 2200 | Q8 T 2300 CVT HF 10W-30 | Q8 T 2300 CVT 10W-30 | Q8 T 2300 CVT 15W-40 | Q8 T 2500 | Q8 T 2600 WB Axle 80W-140 | Q8 T 3000 | Q8 T 3500 |
|-----------------------------------|----------------------|------------------|------------------|-----------|-------------------------|----------------------|----------------------|-----------|---------------------------|-----------|-----------|
| Case New Holland MAT 3505         |                      |                  |                  | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| Case New Holland MAT 3506         |                      |                  |                  | ✓         |                         |                      | ✓                    |           |                           |           |           |
| Case New Holland MAT 3509         |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| Case New Holland MAT 3510         |                      |                  |                  |           |                         |                      |                      |           | ✓                         |           |           |
| Case New Holland MAT 3525         | ✓                    | ✓                | ✓                | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| Case New Holland MAT 3526         |                      | ✓                |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Case New Holland MAT 3540         |                      |                  |                  | ✓         |                         | ✓                    | ✓                    |           |                           |           |           |
| Case New Holland MAT 3544         |                      |                  |                  |           |                         | ✓                    |                      |           |                           |           |           |
| Case New Holland MAT 3552-A       |                      |                  |                  | ✓         |                         | ✓                    |                      |           |                           |           |           |
| Case New Holland MAT 3553-A       |                      |                  |                  |           |                         | ✓                    |                      |           |                           |           |           |
| Case UK/David Brown               |                      |                  |                  |           |                         |                      |                      |           |                           | ✓         |           |
| Caterpillar SATO                  |                      |                  |                  |           |                         | ✓                    | ✓                    |           |                           |           |           |
| Caterpillar TDTO Cold Weather     |                      |                  |                  |           | ✓                       |                      |                      |           |                           |           |           |
| Caterpillar TDTO-TMS              |                      |                  |                  |           | ✓                       |                      |                      |           |                           |           |           |
| Caterpillar TO-2                  | ✓                    |                  | ✓                | ✓         |                         |                      |                      | ✓         |                           | ✓         |           |
| Claas AGRISHIFT XE                |                      |                  |                  |           | ✓                       |                      |                      |           |                           |           |           |
| Claas CVT                         |                      |                  |                  |           |                         | ✓                    | ✓                    |           |                           |           |           |
| Denison HF-0                      |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Denison HF-1                      |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Denison HF-2                      |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Deutz Allis AC Power Fluid 821 XL |                      |                  |                  | ✓         |                         | ✓                    |                      |           |                           |           |           |
| DIN 51524-3 HVLDP                 |                      |                  | ✓                |           |                         |                      |                      |           |                           |           |           |
| Fendt Vario                       |                      |                  | ✓                |           |                         | ✓                    | ✓                    |           |                           |           |           |
| Fiat AF 87                        |                      |                  | ✓                |           |                         |                      |                      |           |                           | ✓         |           |
| FNHA 2-C 200                      |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| FNHA 2-C-201                      |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Ford M2C121-D                     |                      |                  | ✓                |           |                         |                      |                      |           |                           |           |           |
| Ford M2C121-E                     | ✓                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| Ford M2C134-D                     | ✓                    | ✓                | ✓                | ✓         |                         |                      |                      |           |                           |           |           |
| Ford M2C159-B                     |                      | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |

Aprobaciones y recomendaciones (3 / 5)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                              | Q8 T 1000 (D) 10W-30 | Q8 T 1000 15W-40 | Q8 T 5000 10W-40 | Q8 T 2200 | Q8 T 2300 CVT HF 10W-30 | Q8 T 2300 CVT 10W-30 | Q8 T 2300 CVT 15W-40 | Q8 T 2500 | Q8 T 2600 WB Axle 80W-140 | Q8 T 3000 | Q8 T 3500 |
|------------------------------|----------------------|------------------|------------------|-----------|-------------------------|----------------------|----------------------|-----------|---------------------------|-----------|-----------|
| Ford M2C159-C                | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |
| Ford M2C41-B                 | ✓                    |                  | ✓                |           |                         |                      |                      |           |                           |           |           |
| Ford M2C48-C2                |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| Ford M2C86-B                 |                      |                  |                  |           |                         |                      |                      | ✓         |                           | ✓         |           |
| Ford M2C86-C                 |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| John Deere Hygard            |                      |                  |                  |           | ✓                       |                      |                      |           |                           |           |           |
| John Deere JDM 3000          |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| John Deere JDM J20A          |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| John Deere JDM J20B          |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| John Deere JDM J20C          | ✓                    | ✓                | ✓                | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| John Deere JDM J20D          |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| John Deere JDM J27           | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |
| Komatsu Dresser B06-0001     |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Komatsu Dresser B06-0002     |                      |                  |                  | ✓         |                         |                      |                      | ✓         |                           | ✓         |           |
| Komatsu KES 07.866           |                      |                  |                  | ✓         |                         | ✓                    | ✓                    |           |                           |           |           |
| Kubota Super UDT             |                      |                  |                  | ✓         |                         |                      |                      | ✓         |                           |           |           |
| Kubota Super UDT2            |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Kubota UDT                   |                      |                  |                  | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| Kubota UDT-HD                |                      |                  |                  |           |                         | ✓                    |                      |           |                           |           |           |
| Landini UTTO                 |                      |                  |                  |           |                         |                      |                      |           |                           | ✓         |           |
| Massey Ferguson CMS M 1110   |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Massey Ferguson CMS M 1127   | ✓                    |                  | ✓                |           |                         |                      |                      |           |                           | ✓         |           |
| Massey Ferguson CMS M 1127-A |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Massey Ferguson CMS M 1127-B |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Massey Ferguson CMS M 1135   | ✓                    | ✓                |                  | ✓         |                         | ✓                    |                      | ✓         |                           | ✓         |           |
| Massey Ferguson CMS M 1139   | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |
| Massey Ferguson CMS M 1141   | ✓                    |                  | ✓                | ✓         |                         | ✓                    |                      | ✓         |                           | ✓         |           |
| Massey Ferguson CMS M 1143   |                      | ✓                |                  | ✓         |                         | ✓                    |                      | ✓         |                           |           |           |
| Massey Ferguson CMS M 1144   | ✓                    | ✓                | ✓                |           |                         |                      |                      |           |                           |           |           |
| Massey Ferguson CMS M 1145   | ✓                    | ✓                | ✓                | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |

## Aprobaciones y recomendaciones (4 / 5)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                              | Q8 T 1000 (D) 10W-30 | Q8 T 1000 15W-40 | Q8 T 5000 10W-40 | Q8 T 2200 | Q8 T 2300 CVT HF 10W-30 | Q8 T 2300 CVT 10W-30 | Q8 T 2300 CVT 15W-40 | Q8 T 2500 | Q8 T 2600 WB Axle 80W-140 | Q8 T 3000 | Q8 T 3500 |
|----------------------------------------------|----------------------|------------------|------------------|-----------|-------------------------|----------------------|----------------------|-----------|---------------------------|-----------|-----------|
| MB 227.1                                     | ✓                    | ✓                |                  |           |                         |                      |                      |           |                           |           |           |
| MB 228.1 rendimiento del motor en SAE 10W-30 | ✓                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| MB 228.3 nivel de limpieza del pistón        | ✓                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| MIL L-2104D                                  | ●                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 024-C                         | ✓                    | ✓                |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 030-C                         |                      | ✓                |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 324-B                         | ✓                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 410-B                         | ✓                    | ✓                | ✓                | ✓         |                         | ✓                    | ✓                    |           |                           |           |           |
| New Holland NH 410-C                         |                      |                  |                  | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| New Holland NH 420-A                         |                      | ✓                |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 526-C                         |                      |                  | ✓                |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 540-B                         | ✓                    |                  |                  |           |                         |                      |                      |           |                           |           |           |
| New Holland NH 600 TR                        |                      |                  |                  |           |                         |                      |                      |           | ✓                         |           |           |
| Renk Doromat 873                             |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Renk Doromat 874-A                           |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Renk Doromat 874-B                           |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| Same Deutz Fahr UTTO                         |                      |                  |                  |           |                         | ✓                    |                      |           |                           | ✓         |           |
| Steyr 397 88001                              |                      |                  | ✓                |           |                         |                      |                      |           |                           |           |           |
| Valmet/Volvo BM UTTO                         |                      |                  |                  |           |                         |                      |                      |           |                           | ✓         |           |
| Valtra G2-08 (XT-60)                         |                      |                  |                  | ✓         |                         | ✓                    | ✓                    |           |                           |           |           |
| Valtra G2-B10 (XT-60+)                       |                      |                  |                  | ✓         |                         | ✓                    | ✓                    |           |                           |           |           |
| Volvo 97302                                  |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| Volvo 97303 (WB 101)                         |                      |                  |                  | ☑         |                         |                      |                      |           |                           |           |           |
| Volvo 97304 (WB 102)                         |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| White New Idea Q-1802                        |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| White New Idea Q-1826                        |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| ZF TE-ML 03E                                 |                      |                  |                  | ✓         |                         | ✓                    | ✓                    | ✓         |                           |           |           |
| ZF TE-ML 03F                                 |                      |                  |                  |           |                         |                      |                      | ✓         |                           |           |           |
| ZF TE-ML 03L                                 |                      |                  |                  | ✓         |                         |                      |                      |           |                           |           |           |
| ZF TE-ML 05F                                 |                      |                  |                  | ☑         |                         | ✓                    | ✓                    | ✓         | ✓                         |           |           |

Aprobaciones y recomendaciones (5 / 5)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☒

Aprobación
- ☒

\* Aprobación pendiente
- ✓

Recomendación

|              | Q8 T 1000 (D) 10W-30                | Q8 T 1000 15W-40 | Q8 T 5000 10W-40                    | Q8 T 2200                           | Q8 T 2300 CVT HF 10W-30 | Q8 T 2300 CVT 10W-30 | Q8 T 2300 CVT 15W-40 | Q8 T 2500 | Q8 T 2600 WB Axle 80W-140 | Q8 T 3000 | Q8 T 3500 |
|--------------|-------------------------------------|------------------|-------------------------------------|-------------------------------------|-------------------------|----------------------|----------------------|-----------|---------------------------|-----------|-----------|
| ZF TE-ML 06B | <input checked="" type="checkbox"/> | ✓                | <input checked="" type="checkbox"/> |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06C | ✓                                   | ✓                |                                     |                                     |                         |                      |                      |           |                           |           |           |
| ZF TE-ML 06D | <input checked="" type="checkbox"/> |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06E |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06F |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06H |                                     |                  |                                     |                                     | ✓                       |                      |                      |           |                           |           |           |
| ZF TE-ML 06K |                                     |                  |                                     | ✓                                   |                         | ✓                    | ✓                    | ✓         | ✓                         |           |           |
| ZF TE-ML 06L |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06M |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06N | <input checked="" type="checkbox"/> |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06P |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06R |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06S |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 06T |                                     |                  |                                     |                                     |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 07B | <input checked="" type="checkbox"/> |                  | <input checked="" type="checkbox"/> |                                     |                         |                      |                      |           |                           |           |           |
| ZF TE-ML 17E |                                     |                  |                                     | <input checked="" type="checkbox"/> |                         | ✓                    | ✓                    |           |                           |           |           |
| ZF TE-ML 21F |                                     |                  |                                     | <input checked="" type="checkbox"/> |                         | ✓                    | ✓                    |           | ✓                         |           |           |

Aprobaciones y recomendaciones (1 / 1)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☑

Aprobación
- ☑\*

Aprobación pendiente
- ✓

Recomendación

|                               | Q8 Racing 2T | Q8 Allroads 2T | Q8 Outboard Synt 2T | Q8 Outboard 2T | Q8 Garden Pro Synt 2T | Q8 Garden Pro 2T | Q8 Racing 4T 10W-50 | Q8 Sport 4T 10W-40 | Q8 City 4T 10W-30 | Q8 Rider 4T 20W-50 | Q8 Allroads 4T 10W-40 | Q8 Allroads 4T 15W-50 | Q8 Outboard Synt 4T 10W-40 | Q8 Garden Pro Synt 4T 5W-30 | Q8 Garden Pro 4T SAE 30 |
|-------------------------------|--------------|----------------|---------------------|----------------|-----------------------|------------------|---------------------|--------------------|-------------------|--------------------|-----------------------|-----------------------|----------------------------|-----------------------------|-------------------------|
| API CD                        |              |                |                     |                |                       |                  |                     |                    |                   |                    |                       |                       |                            | •                           | ✓                       |
| API CF                        |              |                |                     |                |                       |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| API SF                        |              |                |                     |                |                       |                  |                     |                    |                   |                    |                       |                       |                            |                             | ✓                       |
| API SL                        |              |                |                     |                |                       |                  |                     | •                  |                   |                    | •                     | •                     |                            | •                           |                         |
| API SM                        |              |                |                     |                |                       |                  | •                   | ✓                  |                   | ✓                  |                       |                       | •                          |                             |                         |
| API SN                        |              |                |                     |                |                       |                  | •                   | ✓                  |                   | ✓                  |                       |                       |                            |                             |                         |
| API SP                        |              |                |                     |                |                       |                  | •                   | ✓                  |                   | ✓                  |                       |                       |                            |                             |                         |
| API TC +                      |              |                | ✓                   |                |                       |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| API TC ++                     |              | •              |                     |                |                       | •                |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| API TC +++                    | •            |                |                     |                | •                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| Husqvarna 346                 | ✓            |                |                     |                | ✓                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| Husqvarna 372                 | ✓            |                |                     |                | ✓                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| ISO L-EGC                     | ✓            | ✓              |                     |                | ✓                     | •                |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| ISO L-EGD                     | •            |                |                     |                | •                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| JASO FC                       | ✓            |                |                     |                | ✓                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| JASO FD                       | •            | •              | ✓                   |                | •                     | •                |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| JASO MA2                      |              |                |                     |                |                       |                  | •                   | ✓                  | •                 | ✓                  | •                     | •                     |                            |                             |                         |
| NMMA FC-W                     |              |                |                     |                |                       |                  |                     |                    |                   |                    |                       |                       | •                          |                             |                         |
| NMMA TC-W Catalyst Compatible |              |                |                     |                |                       |                  |                     |                    |                   |                    |                       |                       | ✓                          |                             |                         |
| NMMA TC-W3                    |              |                | •                   | •              |                       |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| Rotax 253                     | ✓            |                |                     |                | ✓                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| SAE Class 3 Fluidity          | ✓            |                | ✓                   | ✓              | ✓                     |                  |                     |                    |                   |                    |                       |                       |                            |                             |                         |
| TISI 1040                     | •            | •              |                     |                | ✓                     | •                |                     |                    |                   |                    |                       |                       |                            |                             |                         |

Gama de productos

|           |                                       | Scooter                                                                                                                                                                                                                                                                                                                                                           | Moto | Fueraborda                                                         | Jardín                                                                                      |
|-----------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 2 Tiempos | Posicionamiento<br>(más alto = mejor) | <div>Q8 Racing 2T</div> <div>JASO FD; API TC+++; TISI; ISO L-EGD; GLOBAL GD</div> <div>Q8 Allroads 2T</div> <div>JASO FD; API TC++; TISI 1040; ISO-L-EGC</div>                                                                                                                                                                                                    |      | <div>Q8 Outboard Synt 2T</div> <div>NMMA TC-W3</div>               | <div>Q8 Garden Pro Synt 2T</div> <div>JASO FD; API TC +++; TISI; ISO L-EGD; GLOBAL GD</div> |
|           |                                       |                                                                                                                                                                                                                                                                                                                                                                   |      | <div>Q8 Outboard 2T</div> <div>NMMA TC-W3</div>                    | <div>Q8 Garden Pro 2T</div> <div>JASO FD; API TC ++; TISI 1040; ISO-L-EGC</div>             |
| 4 Tiempos | Posicionamiento<br>(más alto = mejor) | <div>Q8 City 4T 10W-30</div> <div>JASO MA2; API SN</div> <div>Q8 Sport 4T 10W-40</div> <div>JASO MA2; API SN</div> <div>Q8 Racing 4T 10W-50</div> <div>JASO MA2; API SN</div> <div>Q8 Rider 4T 20W-50</div> <div>JASO MA2; API SN</div> <div>Q8 Allroads 4T 10W-40</div> <div>JASO MA2; API SL</div> <div>Q8 Allroads 4T 15W-50</div> <div>JASO MA2; API SL</div> |      | <div>Q8 Outboard Synt 4T 10W-40</div> <div>NMMA FC-W; API SM</div> | <div>Q8 Garden Pro Synt 4T 5W-30</div> <div>API SL/CF</div>                                 |
|           |                                       |                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                    | <div>Q8 Garden Pro 4T SAE 30</div> <div>API SF/CC</div>                                     |

| JASO T903 clasificación comportamiento fricción |                   | Embrague húmedo |             |             | Embrague seco |
|-------------------------------------------------|-------------------|-----------------|-------------|-------------|---------------|
|                                                 |                   | MA2             | MA1         | MA          | MB            |
| Index                                           | Fricción estática | 1.70≤X<2.50     | 1.15≤X<1.70 | 1.15≤X<2.50 | 0.50≤X<1.15   |
|                                                 | Fricción dinámica | 1.80≤X<2.50     | 1.45≤X<1.80 | 1.45≤X<2.50 | 0.50≤X<1.45   |
|                                                 | Tiempo de parada  | 1.90≤X<2.50     | 1.55≤X<1.90 | 1.55≤X<2.50 | 0.50≤X<1.55   |

Gama de productos (1 / 4)

Leyenda

- (dd. 04/04/2025)
- ☐

 Especificación
- ☒

 Aprobación
- ☒

 Aprobación pendiente
- ☐

 Recomendación

|                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           |                   |
|-----------------------------|--------------------------------------|-------------------------------|-------------------------|----------------------------------|-----------------------------|--------------------------------------|---------------------|------------------------------|---------------------------|-------------------|
| Q8 Antifreeze Extended Life | Q8 Antifreeze Extended Life Premixed | Q8 Antifreeze Lobrid Premixed | Q8 Antifreeze Long Life | Q8 Antifreeze Long Life Premixed | Q8 Antifreeze Long Life OAT | Q8 Antifreeze Long Life OAT Premixed | Q8 Antifreeze OAT-2 | Q8 Antifreeze OAT-2 Premixed | Q8 Antifreeze Long Life V | Q8 Antifreeze Evo |
| OAT                         | OAT                                  | Lobrid                        | OAT                     | OAT                              | OAT                         | OAT                                  | OAT                 | OAT                          |                           | OAT               |
| Blue-green                  | Blue-green                           | Magenta                       | Orange-red              | Orange-red                       | Orange/Red                  | orange/red                           | Orange              | Orange                       |                           | Pink              |

|                                         |   |   |   |                                     |   |   |   |   |                                     |  |   |
|-----------------------------------------|---|---|---|-------------------------------------|---|---|---|---|-------------------------------------|--|---|
| AFNOR NF R 15-601                       |   |   |   | ●                                   | ● |   |   |   |                                     |  |   |
| AS 2108-2004                            | ● | ● |   |                                     |   |   |   |   |                                     |  | ✓ |
| ASTM D 3306                             | ● | ● | ✓ | ●                                   | ● |   |   | ✓ | ✓                                   |  | ✓ |
| ASTM D 4656                             |   |   |   | ●                                   | ● |   |   |   |                                     |  |   |
| ASTM D 4985                             |   |   | ✓ | ●                                   | ● |   |   |   |                                     |  | ✓ |
| ASTM D 6210                             |   |   |   | ●                                   | ● |   |   | ✓ | ✓                                   |  | ✓ |
| ASTM D 7583                             |   |   |   |                                     |   |   |   |   |                                     |  | ✓ |
| Audi VW TL 774 L                        |   |   |   |                                     |   |   |   |   |                                     |  | ✓ |
| Bentley VW TL 774 G (G12++)             |   |   | ✓ |                                     |   |   |   |   |                                     |  |   |
| Bentley VW TL 774 L                     |   |   |   |                                     |   |   |   |   |                                     |  | ✓ |
| BS 6580                                 | ● | ✓ | ✓ | ✓                                   | ✓ |   |   |   |                                     |  | ✓ |
| Bugatti VW TL 774 L                     |   |   |   |                                     |   |   |   |   |                                     |  | ✓ |
| Case New Holland MAT 3624               |   |   |   | ●                                   | ● |   |   | ✓ | ✓                                   |  |   |
| Case New Holland MAT 3724               |   |   |   |                                     |   |   |   | ✓ | ✓                                   |  |   |
| Caterpillar GCM34                       |   |   |   |                                     |   |   |   | ✓ | ✓                                   |  |   |
| China GB 29743-2013                     |   |   | ✓ |                                     |   |   |   |   |                                     |  | ✓ |
| Cummins CES 14439                       |   |   |   | ●                                   | ✓ | ✓ | ✓ |   |                                     |  |   |
| Cummins CES 14603                       |   |   | ● | ●                                   | ✓ | ✓ | ✓ |   |                                     |  |   |
| CUNA NC 956-16                          | ● | ● | ✓ |                                     |   |   |   |   |                                     |  | ✓ |
| CUNA NC 956-18 (Excepto RA)             | ● | ● |   |                                     |   |   |   |   |                                     |  |   |
| DAF 74002                               |   |   |   | ●                                   | ● | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> |  |   |
| Daimler Truck AG DTFR 29C110 (MB 325.3) |   |   |   |                                     |   |   | ✓ | ✓ | ✓                                   |  |   |
| Daimler Truck AG DTFR 29D110 (MB 326.3) |   |   |   |                                     |   | ✓ | ✓ | ✓ | ✓                                   |  |   |
| Daimler Truck AG DTFR 29D120 (MB 326.5) |   |   | ✓ |                                     |   |   |   |   |                                     |  |   |
| Detroit Diesel 93K217                   |   |   |   | ●                                   | ✓ | ✓ | ✓ |   |                                     |  |   |
| Detroit Diesel DFS 93K227               |   |   |   |                                     |   | ✓ | ✓ |   |                                     |  |   |
| Deutz DQC CB-14                         |   |   |   | <input checked="" type="checkbox"/> | ● | ✓ | ✓ | ✓ | ✓                                   |  |   |
| Deutz DQC CC-14                         |   |   | ✓ |                                     |   |   |   |   |                                     |  | ✓ |
| Fiat 9.55523                            |   |   |   | ✓                                   | ✓ |   |   |   |                                     |  |   |
| Ford M97B44-D                           |   |   |   | ●                                   | ● | ✓ | ✓ | ✓ | ✓                                   |  |   |
| Ford M97B44-E                           |   |   |   | ✓                                   | ✓ |   |   |   |                                     |  |   |

Gama de productos (2 / 4)

Leyenda

- (dd. 04/04/2025)
- ☐

Especificación
- ☒

Aprobación
- ☒

Aprobación pendiente
- ☐

Recomendación

|                                             | Q8 Antifreeze Extended Life | Q8 Antifreeze Extended Life Premixed | Q8 Antifreeze Lobrid Premixed | Q8 Antifreeze Long Life | Q8 Antifreeze Long Life Premixed | Q8 Antifreeze Long Life OAT | Q8 Antifreeze Long Life OAT Premixed | Q8 Antifreeze OAT-2 | Q8 Antifreeze OAT-2 Premixed | Q8 Antifreeze Long Life V | Q8 Antifreeze Evo |
|---------------------------------------------|-----------------------------|--------------------------------------|-------------------------------|-------------------------|----------------------------------|-----------------------------|--------------------------------------|---------------------|------------------------------|---------------------------|-------------------|
| Foton Q-FPT 2313005-2013                    |                             |                                      |                               | ●                       | ●                                | ✓                           | ✓                                    |                     |                              |                           |                   |
| France NFR 15-601                           | ●                           | ✓                                    |                               |                         |                                  |                             |                                      |                     |                              |                           |                   |
| FVV Heft R 443                              |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| GB 29743-2013                               | ●                           | ●                                    |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| GM B 040 1065                               |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| GM GMW 18270                                |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| GM GMW 3420                                 |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| INNIO Jenbacher TA 1000-0201                |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Iveco 18-1830                               |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Jaguar Land Rover STJLR 03.5212             |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| Jaguar Land Rover STJLR.651.5003 (CMR 8229) |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| JIS K 2234                                  |                             |                                      | ✓                             | ●                       | ●                                |                             |                                      | ✓                   | ✓                            |                           |                   |
| JIS K 2234:2006                             |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| John Deere JDM H5                           |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Komatsu KES 07.892                          |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| KSM 2142                                    |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Lamborghini VW TL 774 G (G12++)             |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| Lamborghini VW TL 774 L                     |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| Leyland Trucks DW03245403                   |                             |                                      |                               | ●                       | ●                                | ✓                           |                                      |                     |                              |                           |                   |
| Liebherr LH-01-COL3A                        |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| Liebherr MD1-36-130                         |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Mack 014 GS 17009                           |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MAN 324 Tipo Si-OAT                         |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| MAN 324 Tipo SNF                            |                             |                                      |                               | ✓                       | ✓                                | ✓                           | ✓                                    |                     |                              |                           |                   |
| MAN 325 Type SNF                            |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| MAN B&W AG D36 5600                         |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Mazda MEZ MN 121 D                          |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MB 325.3 (DTFR 29C110)                      |                             |                                      |                               | ✓                       |                                  |                             |                                      |                     |                              |                           |                   |
| MB 326.3 (DTFR 29D110)                      |                             |                                      |                               |                         | ✓                                |                             |                                      |                     |                              |                           |                   |
| MB 326.5                                    |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| MB 326.6                                    |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| MIL-Belgium BT-PS-606 A                     |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MIL-France DCSEA 615/C                      |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |

## Gama de productos (3 / 4)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                               | Q8 Antifreeze Extended Life | Q8 Antifreeze Extended Life Premixed | Q8 Antifreeze Lobrid Premixed | Q8 Antifreeze Long Life | Q8 Antifreeze Long Life Premixed | Q8 Antifreeze Long Life OAT | Q8 Antifreeze Long Life OAT Premixed | Q8 Antifreeze OAT-2 | Q8 Antifreeze OAT-2 Premixed | Q8 Antifreeze Long Life V | Q8 Antifreeze Evo |
|-------------------------------|-----------------------------|--------------------------------------|-------------------------------|-------------------------|----------------------------------|-----------------------------|--------------------------------------|---------------------|------------------------------|---------------------------|-------------------|
| MIL-Italy E/L-1415b           |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MIL-Norway FS 6850-0951       |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MIL-Sweden FSD 8704           |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Mitsubishi MHI                |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Motores Bergen 2.13.01        |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| MTU MTL 5048                  |                             |                                      | ✓                             | ●                       | ☑                                |                             |                                      |                     |                              |                           |                   |
| MWM 0199-99-2091/12           |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| NATO S-759                    |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Opel/Vauxhall GMW 18270       |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| Opel/Vauxhall GMW 3420        |                             |                                      |                               | ●                       | ✓                                |                             |                                      |                     |                              |                           |                   |
| Porsche VW TL 774 G (G12++)   |                             |                                      | ●                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| Porsche VW TL 774 L           |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| Renault 41-01-001/- -S Type D |                             |                                      |                               |                         |                                  |                             | ✓                                    |                     |                              |                           |                   |
| Renault 41-01-001/- -T        |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Renault 41-01-001/S Type D    |                             |                                      |                               | ●                       | ●                                | ✓                           |                                      |                     |                              |                           |                   |
| Rolls-Royce Bergen 2.13.01    |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Saab B 040 1065               |                             |                                      |                               | ●                       | ✓                                |                             |                                      |                     |                              |                           |                   |
| SACM Diesel DLP799861         |                             |                                      |                               | ●                       | ●                                |                             |                                      |                     |                              |                           |                   |
| SAE J 1034                    | ●                           | ●                                    | ✓                             | ●                       | ●                                |                             |                                      |                     |                              |                           | ✓                 |
| SANS 1251:2005                |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| Scania TB 1451                |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| Seat VW TL 774 L              |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| Stellantis FPW 9.55523        |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Stellantis GMW 18270          |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Stellantis GMW 3420           |                             |                                      |                               |                         |                                  | ✓                           | ✓                                    |                     |                              |                           |                   |
| Tata Tata                     |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| UNE 26-361-88/1               | ●                           | ●                                    |                               | ●                       | ●                                |                             |                                      | ✓                   | ✓                            |                           |                   |
| VAG VW TL 774 D (G12)         |                             |                                      |                               | ●                       | ●                                | ✓                           | ✓                                    | ✓                   | ✓                            |                           |                   |
| VAG VW TL 774 F (G12+)        |                             |                                      |                               | ✓                       | ●                                | ✓                           | ✓                                    | ✓                   | ✓                            |                           |                   |
| VAG VW TL 774 G (G12++)       |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| VAG VW TL 774 L (G12 EVO)     |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |
| VAG Škoda 61-0-0257           |                             |                                      |                               | ●                       | ✓                                |                             |                                      |                     |                              |                           |                   |
| Volkswagen VW TL 774 L        |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |

Gama de productos (4 / 4)

Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                                   | Q8 Antifreeze Extended Life | Q8 Antifreeze Extended Life Premixed | Q8 Antifreeze Lobrid Premixed | Q8 Antifreeze Long Life | Q8 Antifreeze Long Life Premixed | Q8 Antifreeze Long Life OAT | Q8 Antifreeze Long Life OAT Premixed | Q8 Antifreeze OAT-2 | Q8 Antifreeze OAT-2 Premixed | Q8 Antifreeze Long Life V | Q8 Antifreeze Evo |
|---------------------------------------------------|-----------------------------|--------------------------------------|-------------------------------|-------------------------|----------------------------------|-----------------------------|--------------------------------------|---------------------|------------------------------|---------------------------|-------------------|
| Volvo Construction Equipment STD 418-0007 (VCS-2) |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| Volvo Penta STD 418-0007 (VCS-2)                  |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| Volvo Trucks STD 418-0007 (VCS-2)                 |                             |                                      |                               |                         |                                  |                             |                                      | ✓                   | ✓                            |                           |                   |
| Volvo Volvo Penta                                 |                             |                                      |                               | ✓                       | ✓                                |                             |                                      |                     |                              |                           |                   |
| VW/Audi TL-774 D= G12                             |                             |                                      |                               | ●                       |                                  |                             |                                      |                     |                              |                           |                   |
| Önorm V5123                                       |                             |                                      | ✓                             | ✓                       | ●                                |                             |                                      |                     |                              |                           |                   |
| Škoda VW TL 774 G (G12++)                         |                             |                                      | ✓                             |                         |                                  |                             |                                      |                     |                              |                           |                   |
| Škoda VW TL 774 L                                 |                             |                                      |                               |                         |                                  |                             |                                      |                     |                              |                           | ✓                 |

Evolución histórica de la tecnología aprobada por fabricantes de vehículo pesado - OEMS

| Marca          | Año | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| DAF/Leyland    |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Ford           |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Iveco          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAN            |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Mercedes Benz  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Renault Trucks |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Scania         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Volvo          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Tipo de Tecnología



Tradicional



Híbrida



Lobrid



OAT

|             | Tradicional  | Híbrida                             | Lobrid                              | OAT           |
|-------------|--------------|-------------------------------------|-------------------------------------|---------------|
| Inhibidores | sólo mineral | mayoritariamente mineral + orgánico | mayoritariamente orgánico + mineral | sólo orgánico |
| % mineral   | > 90         | entre 10 & 90                       | entre 1 & 9                         | 0             |
| %orgánico   | 10           | entre 90 & 10                       | entre 99 & 91                       | 100           |

OAT = Organic Additiv Technology = Tecnología de Aditivos Orgánicos

## Evolución histórica de la tecnología aprobada por fabricantes de vehículos ligeros - OEMS

| Marca         | Año | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alfa Romeo    |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Audi          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| BMW           |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Chrysler      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Citroën       |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Dacia         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Daewoo        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Fiat & Lancia |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Ford          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| GM            |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Honda         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Hyundai/Kia   |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Jaguar        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Land Rover    |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Mazda         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Mercedes      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Mitsubishi    |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Nissan        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Opel          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Peugeot       |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Porsche       |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Renault       |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Saab          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Seat          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Skoda         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Suzuki        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Toyota        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Volkswagen    |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Volvo         |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Tipo de Tecnología



Tradicional



Híbrida



Lobrid



OAT

Gama de productos (1 / 1)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                             | Q8 Brake Fluid DOT 4+ | Q8 Brake Fluid DOT 4 LV | Q8 Brake Fluid DOT 5.1 LV | Q8 LHM+ | Q8 CHF 22S | Q8 PSF 32S |
|-----------------------------|-----------------------|-------------------------|---------------------------|---------|------------|------------|
| BMW/MINI 54 34 0 392 235    |                       |                         |                           |         | ✓          |            |
| BMW/MINI 54 34 0 394 395    |                       |                         |                           |         | ✓          |            |
| BMW/MINI 54 34 7 117 733    |                       |                         |                           |         | ✓          |            |
| BMW/MINI 82 11 0 14 8 132   |                       |                         |                           |         | ✓          |            |
| BMW/MINI 82 11 1 468 041    |                       |                         |                           |         | ✓          |            |
| BMW/MINI 83 29 0 429 576    |                       |                         |                           |         | ✓          |            |
| Bosch TE-ML 09              |                       |                         |                           |         |            | ✓          |
| Chrysler MS-11655           |                       |                         |                           |         | ✓          |            |
| Chrysler P-N 05127381AB     |                       |                         |                           |         | ✓          |            |
| Chrysler P-N 68088485AA     |                       |                         |                           |         | ✓          |            |
| DIN 51524-3 HVLP            |                       |                         |                           | ●       |            |            |
| Fendt X 902 011 622         |                       |                         |                           |         | ✓          |            |
| Fiat 9.55550-AG2            |                       |                         |                           |         |            | ✓          |
| Fiat 9.55550-SA1            |                       |                         |                           |         | ✓          |            |
| FMVSS 116 DOT 3             | ●                     | ●                       | ●                         |         |            |            |
| FMVSS 116 DOT 4             | ●                     | ●                       | ●                         |         |            |            |
| FMVSS 116 DOT 4 LV          |                       | ●                       |                           |         |            |            |
| FMVSS 116 DOT 5.1           |                       |                         | ●                         |         |            |            |
| FMVSS 116 DOT 5.1 LV        |                       |                         | ●                         |         |            |            |
| Ford 204-A1                 |                       |                         |                           |         | ✓          |            |
| Ford M2C204-A2              |                       |                         |                           |         | ✓          |            |
| Ford M6C65-A2               |                       | ●                       |                           |         |            |            |
| GM B 040 2012               |                       |                         |                           |         | ✓          |            |
| GM Dexron III               |                       |                         |                           |         |            | ✓          |
| Honda PSF-1                 |                       |                         |                           |         |            | ✓          |
| Honda PSF-S                 |                       |                         |                           |         |            | ✓          |
| Honda PSF-V                 |                       |                         |                           |         |            | ✓          |
| Hyundai/Kia P-N 00232-19017 |                       |                         |                           |         | ✓          |            |
| Hyundai/Kia PSF-4           |                       |                         |                           |         | ✓          |            |
| ISO 4925 Class 4            | ●                     |                         | ●                         |         |            |            |
| ISO 4925 Class 5.1          |                       |                         | ●                         |         |            |            |
| ISO 4925 Class 6            |                       | ●                       | ●                         |         |            |            |
| ISO 4925 Class 7            |                       |                         | ●                         |         |            |            |
| ISO 7308                    |                       |                         |                           | ●       | ●          |            |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                           | Q8 Brake Fluid DOT 4+ | Q8 Brake Fluid DOT 4 LV | Q8 Brake Fluid DOT 5.1 LV | Q8 LHM+ | Q8 CHF 22S | Q8 PSF 32S |
|-------------------------------------------|-----------------------|-------------------------|---------------------------|---------|------------|------------|
| JIS K 2233 Class 4                        | ●                     |                         |                           |         |            |            |
| JIS K 2233 Class 6                        |                       | ●                       |                           |         |            |            |
| Land-Rover Cold Climate PAS Fluid LRN2261 |                       |                         |                           |         | ✓          |            |
| Land-Rover LR003401                       |                       |                         |                           |         | ✓          |            |
| MAN M 3289                                |                       |                         |                           |         | ✓          |            |
| MB 236.3                                  |                       |                         |                           |         |            | ✓          |
| MB 345.0 (DTFR 31B120)                    |                       |                         |                           |         | ✓          |            |
| MB P-N 001 989 24 03 10                   |                       |                         |                           |         | ✓          |            |
| MB P-N 001 989 24 03 12                   |                       |                         |                           |         | ✓          |            |
| MB P-N Q 1 32 0001                        |                       |                         |                           |         | ✓          |            |
| Porsche P-N 000 043 203 33                |                       |                         |                           |         | ✓          |            |
| Porsche P-N 000 043 206 56                |                       |                         |                           |         | ✓          |            |
| PSA 9735-EJ                               |                       |                         |                           |         | ✓          |            |
| PSA 9979-A1                               |                       |                         |                           |         | ✓          |            |
| PSA B71 2710                              |                       |                         |                           | ●       |            |            |
| PSA S71 2710                              |                       |                         |                           |         | ●          |            |
| Saab P-N 3032 380                         |                       |                         |                           |         | ✓          |            |
| Saab P-N 9316 0548                        |                       |                         |                           |         | ✓          |            |
| SAE J 1703                                | ●                     | ●                       | ●                         |         |            |            |
| SAE J 1704                                | ●                     | ●                       | ●                         |         |            |            |
| SAE J 1704 LV                             |                       | ●                       | ●                         |         |            |            |
| Toyota PSF NEW-W                          |                       |                         |                           |         | ✓          |            |
| VAG VW 501.14                             |                       | ●                       |                           |         |            |            |
| VAG VW G 002 000                          |                       |                         |                           |         | ✓          |            |
| VAG VW G 004 000                          |                       |                         |                           |         | ✓          |            |
| VAG VW G 004 012                          |                       |                         |                           |         | ✓          |            |
| VAG VW TL 521 46                          |                       |                         |                           |         | ●          |            |
| Volvo 97325                               |                       |                         |                           |         |            | ✓          |
| Volvo P-N 1161529                         |                       |                         |                           |         | ✓          |            |
| Volvo STD 1273.36                         |                       |                         |                           |         | ●          |            |
| Volvo WSS-MWC204A                         |                       |                         |                           |         | ✓          |            |
| ZF TE-ML 02K                              |                       |                         |                           |         | ✓          |            |

Productos Q8Oils aprobados y recomendados por ZF Friedrichshafen AG. Listado de lubricantes ZF TE-ML (dd. 31/11/2022)

[illegible]

A = *Producto aprobado*

**R** = Recomendado pero no aprobado

= Ver listado online

= No hay producto Q8

= *Listado obsoleto*

Productos Q8Oils aprobados y recomendados por ZF Friedrichshafen AG. Listado de lubricantes ZF TE-ML (dd. 31/11/2022)

[illegible]

A = *Producto aprobado*

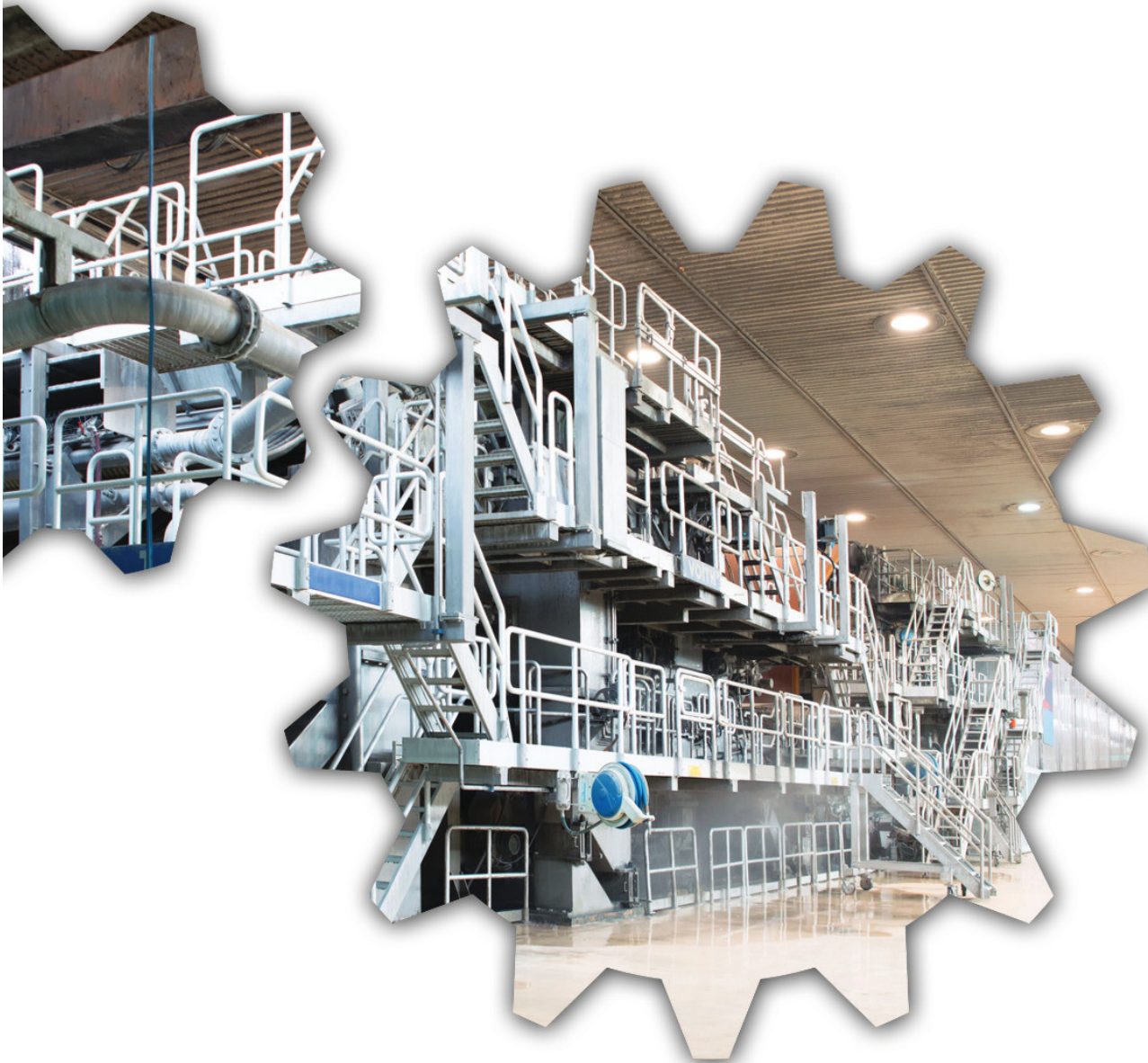
**R** = Recomendado pero no aprobado

 = Ver listado online

 = No hay producto Q8

 = *Listado obsoleto*

## 2. Industria



Gama de productos

|          | Con Zinc      |                            |                                            |                                           |                   | Sin cenizas   |                                     |                                     |                              |                 | Ignifugos                          |                                  |                             | Alimentarios         | Biodegradables         |                        | Especialidades                                               |
|----------|---------------|----------------------------|--------------------------------------------|-------------------------------------------|-------------------|---------------|-------------------------------------|-------------------------------------|------------------------------|-----------------|------------------------------------|----------------------------------|-----------------------------|----------------------|------------------------|------------------------|--------------------------------------------------------------|
|          | No Detergente |                            |                                            |                                           | +<br>Detergente   | No Detergente |                                     |                                     |                              | +<br>Detergente | HFC<br>Agua-Glicol                 | HFDU<br>Ésteres                  | HFDR<br>Fosfatos<br>Ésteres |                      | Ésteres<br>insaturados | Ésteres<br>saturados   |                                                              |
|          | Estándar      | Aceite base<br>re-refinado | Grp II<br>Bosch<br>Rexroth<br>RDE<br>90235 | Estabilidad<br>frente al<br>cizallamiento |                   | Estándar      | Brugger<br>><br>30N/mm <sup>2</sup> | Brugger<br>><br>50N/mm <sup>2</sup> | Tecnología<br>especial       |                 |                                    |                                  |                             |                      |                        |                        |                                                              |
|          | Q8<br>Haydn   | Q8<br>Hunt                 | Q8<br>Henry                                |                                           | Q8<br>Heinichen   | Q8 Holst      | Q8<br>Holst EP                      | Q8<br>Holst XEP                     | Q8<br>Holst CR               |                 |                                    |                                  | Q8<br>Verne                 |                      |                        |                        | Q8<br>Hartmann<br><br>propiedades<br>stick-slip<br>mejoradas |
| VI ~ 100 |               |                            |                                            |                                           |                   |               |                                     |                                     |                              |                 |                                    |                                  |                             |                      |                        |                        |                                                              |
| VI ~ 150 | Q8<br>Heller  | Q8<br>Hunt HV              |                                            |                                           | Q8<br>Hoffmeister | Q8<br>Hanson  |                                     |                                     | Q8<br>Schuman<br>PAO         | Q8<br>Huygens   |                                    |                                  |                             | Q8<br>Rossini<br>HMG | Q8<br>Holbein<br>NWG   |                        |                                                              |
| VI ~ 180 | Q8<br>Handel  |                            |                                            | Q8<br>Hogarth                             | Q8<br>Handel D    | Q8<br>Halley  |                                     |                                     |                              |                 | Roloil<br>Hydroglix<br>(de Italia) | Roloil<br>Estin-S<br>(de Italia) |                             |                      | Q8<br>Holbein<br>ECO   | Q8<br>Holbein HP<br>SE |                                                              |
| VI ~ 300 |               |                            |                                            |                                           |                   |               |                                     |                                     | Q8<br>Hindemith<br>Naphtenic |                 |                                    |                                  |                             |                      |                        |                        |                                                              |

Especificaciones y recomendaciones (1 / 1)

Leyenda

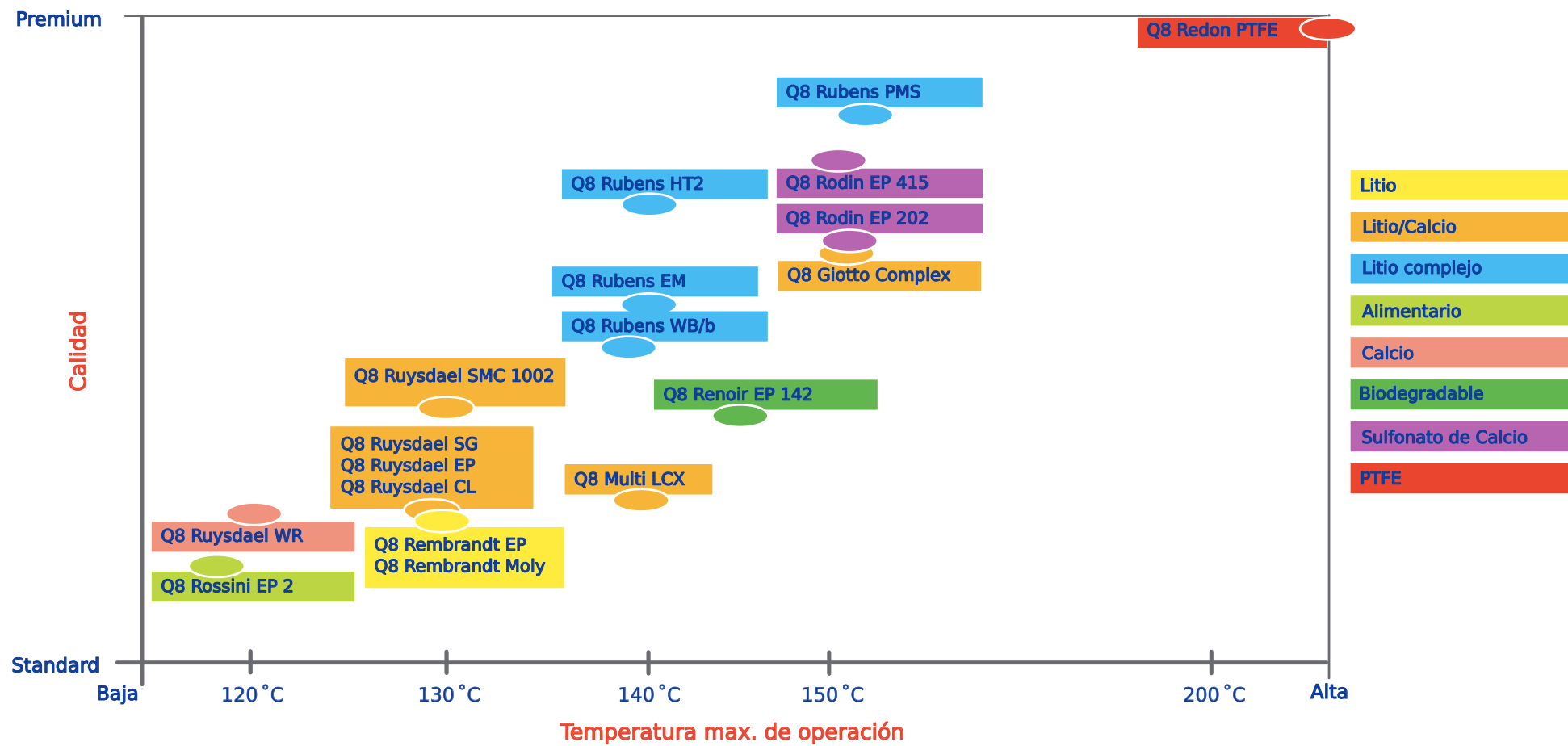
- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                                              | Q8 Haydn | Q8 Heller | Q8 Handel | Q8 Hunt | Q8 Henry | Q8 Hogarth | Q8 Heinichen | Q8 Hoffmeister | Q8 Handel D | Q8 Holst | Q8 Hanson | Q8 Halley | Q8 Holst EP | Q8 Holst XEP | Q8 Holst CR | Q8 Hindemith | Q8 Huygens | Q8 Holbein | Q8 Rossini HMG | Roiloil Estin-S | Roiloil Hydroglix |
|--------------------------------------------------------------|----------|-----------|-----------|---------|----------|------------|--------------|----------------|-------------|----------|-----------|-----------|-------------|--------------|-------------|--------------|------------|------------|----------------|-----------------|-------------------|
| AFNOR 48-603 HV                                              |          | •         |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| AFNOR NF E 48-603 HM                                         | •        |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Arburg HLP VG 46 (ZAF)                                       |          |           |           |         |          |            |              |                | ☑           |          |           |           | ☑           | ☑            |             |              |            |            |                |                 |                   |
| Bosch Rexroth RDE-90235                                      |          |           |           |         | ☑        |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Bosch Rexroth RDE-90245                                      |          |           |           |         | ☑        |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Bosch Rexroth RE 90220 notes                                 | ✓        | ✓         | ✓         |         | ✓        | ✓          | ✓            | ✓              | ✓           | ✓        | ✓         | ✓         | ✓           | ✓            | ✓           |              |            |            |                |                 |                   |
| Bosch Rexroth RE 90221 notes                                 |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            | ✓          |                |                 |                   |
| Danieli Standard 0.000.001-R15 (2023)                        | ☑        |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Danieli Type 36 0.151166.E                                   |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                | ☑               |                   |
| Denison HF-0, HF-1, HF-2                                     | ☑        |           |           |         | ✓        | ☑          |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| DIN 51517-2 CL                                               | ✓        |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| DIN 51524-2 HLP                                              | •        |           |           | •       | •        |            |              |                |             | •        |           |           | •           | •            | •           |              |            |            |                |                 |                   |
| DIN 51524-2 HLPD                                             |          |           |           |         |          |            | •            |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| DIN 51524-3 HVLP                                             |          | •         | •         |         |          | •          |              |                |             |          | •         | •         |             |              |             | •            |            |            | •              |                 |                   |
| DIN 51524-3 HVLPD                                            |          |           |           |         |          |            |              | •              | •           |          |           |           |             |              |             | •            |            |            |                |                 |                   |
| Eaton Brochure 03-401-2010                                   | ✓        | ✓         | ✓         |         | ✓        | ✓          | ✓            | ✓              | ✓           | ✓        | ✓         | ✓         |             |              |             |              |            |            |                |                 |                   |
| FM Approval Standard 6930                                    |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                | ☑               |                   |
| ISO 11158 HM                                                 | •        |           |           | •       | •        |            | •            |                |             | •        |           |           | •           | •            | •           |              |            |            |                |                 |                   |
| ISO 11158 HV                                                 |          | •         | •         |         |          | •          |              | •              |             |          | •         | •         |             |              |             | •            | •          |            | •              |                 |                   |
| ISO 15380 HEES                                               |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            | •          |                |                 |                   |
| ISO 21469                                                    |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            | •              |                 |                   |
| ISO 6743-4 HFDU                                              |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                | •               |                   |
| MAG IAS P-68, P-69, P-70                                     | •        |           |           |         | •        | •          |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Swedish Defense FSD 8401                                     |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             | •            |            |            |                |                 |                   |
| Swedish Standard SS 155434 AM                                | •        |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Swedish Standard SS 155434 AV                                |          |           | •         |         |          | •          |              |                |             |          |           |           |             |              |             |              |            |            |                |                 |                   |
| Swedish Standard SS 155434 BBV 22 Environmentally acceptable |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            | •          |                |                 |                   |
| Swedish Standard SS 155434 BBV 32 Environmentally acceptable |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            | •          |                |                 |                   |
| Swedish Standard SS 155434 BBV 46 Environmentally acceptable |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             |              |            | •          |                |                 |                   |
| Volvo STD 1286.07                                            |          |           |           |         |          |            |              |                |             |          |           |           |             |              |             | ✓            |            |            |                |                 |                   |

## Gama de productos

| Producto                      | DIN 51502    | ISO 6743-9    | NLGI Clase | Tipo de jabón | Aceite base | Viscosidad<br>aceite base @ 40°C<br>mm/s | Rango de<br>temperaturas (pico)<br>°C | Punto<br>de gota<br>°C | Carga de<br>soldadura 4<br>bolas N |
|-------------------------------|--------------|---------------|------------|---------------|-------------|------------------------------------------|---------------------------------------|------------------------|------------------------------------|
| Q8 Copper Thread              | N/A          | N/A           | 1.5        | Bentonite     | Min         | N/A                                      | -30/1100                              | no                     | 3400                               |
| Q8 Giotto Complex             | KPGOG0.5N-30 | L-XCDIB0.5    | 0.5        | LiCa-X        | Min         | 800                                      | -30/140(180)                          | 260                    | >7500                              |
| Q8 Giotto Special (spray can) | KPGOG0.5N-30 | L-XCDIB0.5    | 0.5        | LiCa-X        | Min         | 800                                      | -30/140(180)                          | 260                    | >7500                              |
| Q8 Multi LCX 2                | KP2K-20      | L-XBCDB2      | 2          | LiCa          | Min         | 310                                      | -20/140                               | >180                   | 3100                               |
| Q8 Redon PTFE                 | KFK2U-35     | L-XCGHA2      | 2          | PTFE          | PFPE        | 277                                      | -35/250(270)                          |                        | 7500                               |
| Q8 Rembrandt EP 00 WV         | KP00G-30     | L-XCBEB00     | 0          | Li            | Min         | 40                                       | -30/100(110)                          | >160                   | 2400                               |
| Q8 Rembrandt EP 00            | KP00K-30     | L-XCCHB00     | 0          | Li            | Min         | 280                                      | -30/120                               | 170                    | 2450                               |
| Q8 Rembrandt EP 0             | KP0K-30      | L-XCCFB0      | 0          | Li            | Min         | 200                                      | -30/120(130)                          | 200                    | 2450                               |
| Q8 Rembrandt EP 1             | KP1K-30      | L-XCCFB1      | 1          | Li            | Min         | 200                                      | -30/120(130)                          | 205                    | 2450                               |
| Q8 Rembrandt EP 2             | KP2K-30      | L-XCCFB2      | 2          | Li            | Min         | 190                                      | -30/120(130)                          | 205                    | 2450                               |
| Q8 Rembrandt EP 3             | KP3K-20      | L-XBCFB3      | 3          | Li            | Min         | 280                                      | -20/120(130)                          | >180                   | 2600                               |
| Q8 Rembrandt Moly             | KPF2K-30     | L-XCCHB2      | 2          | Li+MoS2       | Min         | 120                                      | -30/120(130)                          | 190                    | 2750                               |
| Q8 Renoir EP 142              | KP2H         | L-XABIB2      | 2          | LiCa          | Veg+SynEs   | 140                                      | -18/145                               | >160                   | 3900                               |
| Q8 Rodin EP 202               | KP2N-30      | L-XB(F)DIB2   | 2          | CaSul-X       | Min         | 290                                      | -30/140(220)                          | >280                   | >7500                              |
| Q8 Rodin EP 415               | KP1.5N-20    | L-XB(F)DIB1.5 | 1.5        | CaSul-X       | Min         | 400                                      | -20/140(220)                          | >300                   | >5000                              |
| Q8 Rossini EP 2               | KP2K-20      | L-XBCEB2      | 2          | Al-X          | Blanco      | 570                                      | -20/120(140)                          | 256                    | 6000                               |
| Q8 Rubens 00                  | KP00G-35     | L-XCBIB00     | 0          | Li-X          | Min         | 115                                      | -35/100(120)                          | 170                    | 2350                               |
| Q8 Rubens EM 2                | KP2N-30      | L-XCDHB2      | 2          | Li-X          | Min         | 110                                      | -30/140 (220)                         | >260                   | 2600                               |
| Q8 Rubens HT 2                | KP2N-20      | L-XBDIB2      | 2          | Li-X          | Min         | 520                                      | -20/140(220)                          | >260                   | 3400                               |
| Q8 Rubens PMS 222             | KPHC2N-40    | L-XDDIB2      | 2          | Li-X          | PAO         | 220                                      | -40/150(220)                          | >260                   | 3400                               |
| Q8 Rubens WB/b                | KP2N-30      | L-XCDIB2      | 2          | Li-X          | Min         | 210                                      | -30/140(220)                          | 300                    | 2800                               |
| Q8 Ruysdael SG                | KP2.5K-20    | L-XBCHB2.5    | 2.5        | LiCa          | Min         | 520                                      | -20/120(130)                          | >160                   | 4200                               |
| Q8 Ruysdael SMC 1002          | KPF2K-20     | L-XB(F)CHB2   | 2          | LiCa          | Min         | 1000                                     | -20/120(130)                          | >180                   | >7500                              |
| Q8 Ruysdael WR                | KP2K-20      | L-XBCIB2      | 2          | AnhCa         | Min         | 790                                      | -20/120(130)                          | 150                    | 2800                               |

## Posicionamiento



## Miscibilidad de las grasas por su espesante

| Tipo de jabón                | Complejo de aluminio | Complejo de Bario | Calcio | Litio Calcio | Complejo de Calcio | Sulfonato de Calcio Complejo | Arcilla (Bentonita) | Litio | Complejo de Litio | Poliurea | Sodio |
|------------------------------|----------------------|-------------------|--------|--------------|--------------------|------------------------------|---------------------|-------|-------------------|----------|-------|
| Complejo de aluminio         |                      | ✓                 | ✓      | ✗            | !                  | ✗                            | ✗                   | ✗     | ✓                 | !        | ✗     |
| Complejo de Bario            | ✓                    |                   | !      | !            | ✗                  | !                            | !                   | !     | !                 | !        | ✓     |
| Calcio                       | ✓                    | !                 |        | ✓            | !                  | !                            | ✓                   | ✓     | ✓                 | ✗        | ✗     |
| Litio Calcio                 | ✗                    | !                 | ✓      |              | ✓                  | !                            | ✓                   | ✓     | ✓                 | !        | ✗     |
| Complejo de Calcio           | !                    | ✗                 | !      | ✓            |                    | ✓                            | !                   | ✗     | ✓                 | ✓        | !     |
| Sulfonato de Calcio Complejo | ✗                    | !                 | !      | !            | ✓                  |                              | ✗                   | ✓     | ✓                 | ✓        | ✗     |
| Arcilla (Bentonita)          | ✗                    | !                 | ✓      | ✓            | !                  | ✗                            |                     | !     | ✗                 | !        | !     |
| Litio                        | ✗                    | !                 | ✓      | ✓            | ✗                  | ✓                            | !                   |       | ✓                 | !        | ✗     |
| Complejo de Litio            | ✓                    | !                 | ✓      | ✓            | ✓                  | ✓                            | ✗                   | ✓     |                   | ✗        | !     |
| Poliurea                     | !                    | !                 | ✗      | !            | ✓                  | ✓                            | !                   | !     | ✗                 |          | !     |
| Sodio                        | ✗                    | ✓                 | ✗      | ✗            | !                  | ✗                            | !                   | ✗     | !                 | !        |       |

## Miscibilidad de las grasas por su aceite base

| Aceite base                 | Ésteres | Aceite Mineral | Polialfa olefina | Polialquilen glicol | Poliéter Perfluorado (PFPE) |
|-----------------------------|---------|----------------|------------------|---------------------|-----------------------------|
| Ésteres                     |         | ✓              | ✓                | ✓                   | ✗                           |
| Aceite Mineral              | ✓       |                | ✓                | ✗                   | ✗                           |
| Polialfaolefina             | ✓       | ✓              |                  | ✗                   | ✗                           |
| Polialquilenglicol          | ✓       | ✗              | ✗                |                     | ✗                           |
| Poliéter Perfluorado (PFPE) | ✗       | ✗              | ✗                | ✗                   |                             |

### Leyenda

- ✓ Compatible
- ! Requiere comprobación
- ✗ Incompatible

### Notes

Intentar quitar tanta grasa antigua como sea posible.

Este cuadro sólo hace referencia a la compatibilidad entre las grasas.

¡No confundirlo con que sean comparables en términos de prestaciones!

Especificaciones DIN & ISO

DIN 51502

K

P

HC

2

K

-50

Aplicación:

K

Redamientos

G

Reductores

OG

Engranajes abiertos

M

Cojinetes y juntas

Aditivos:

F

Lubricantes sólidos

P

Aditivos EP

Blanc

Ninguno

Tipo de fluido básico:

E

Ester sintético

PG

Polialquilenglicol

FK

Poliéter perfluorado

SI

Aceite de silicona

HC

Polialfaolefina

X

Otros

PH

Fosfato éster

Blanc

Mineral

Consistencia:

NLGI

Descripción

2

Firme

000

Casi fluido

3

Muy firme

00

Semifluido

4

Dura

0

Muy blanda

5

Muy dura

1

Blanda

6

Bloque

Código suplementario:

Temperatura máxima de operación

Comportamiento frente al agua

C

+60°C

Excelente

D

Estándar

E

+80°C

Excelente

F

Estándar

G

+100°C

Excelente

H

Estándar

K

+120°C

Excelente

M

Estándar

N

+140°C

P

+160°C

R

+180°C

De acuerdo a lo convenido

S

+200°C

T

+220°C

U

>220°C

Temperatura mínima de operación:

-10

=

-10°C

-20

=

-20°C

-30

=

-30°C

-40

=

-40°C

-50

=

-50°C

-60

=

-60°C

ISO 6743-9

L

-

X

E

C

I

B

2

Consistencia:

NLGI:

Descripción

000

Casi fluido

00

Semifluido

0

Muy blanda

1

Blanda

2

Firme

3

Muy Firme

4

Dura

5

Muy Dura

6

Bloque

Extrema Presión:

A

=

No

B

=

Si

Resistencia:

Frente al lavado (1)

Frente a la corrosión (2)

A

L

L

B

L

M

C

L

H

D

M

L

E

M

M

F

M

H

G

H

L

H

H

M

I

H

H

(1)

(2)

L = Seco

L = Sin protección

M = En contacto con agua

M = En agua

H = Lavado por agua

H = En agua salada

Temperatura máxima de operación:

A

60°C

B

90°C

C

120°C

D

140°C

E

160°C

F

180°C

G

>180°C

Temperatura mínima de operación:

A

0°C

B

-20°C

C

-30°C

D

-40°C

E

<40°C

Subclase:

X

=

Grasas

Clase:

L

=

Lubricantes

Especificaciones y recomendaciones (1 / 1)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|                                        | Q8 Verdi | Q8 Goya              | Q8 Goya NT                               | Q8 El Greco                                 | Q8 Galilei           | Q8 Gade SFX          | Q8 Rossini G         | Q8 Schumann G         |
|----------------------------------------|----------|----------------------|------------------------------------------|---------------------------------------------|----------------------|----------------------|----------------------|-----------------------|
| Mineral                                | ✓        | ✓                    | ✓                                        |                                             | ✓                    |                      |                      |                       |
| Base sintética                         |          |                      |                                          |                                             |                      |                      |                      |                       |
| PAO (Poly Alpha Olefine)               |          |                      |                                          | ✓                                           |                      |                      | ✓                    | ✓                     |
| PAG (polialquilenglicol)               |          |                      |                                          |                                             |                      | ✓                    |                      |                       |
| FZG Prueba, A/8.3/90, pasa             | N/A      | >12 (ISO VG 46-1000) | >12 (ISO VG 150)<br>>14 (ISO VG 220-460) | >12 (ISO VG 68-150)<br>>14 (ISO VG 220-680) | >14 (ISO VG 150-680) | >14 (ISO VG 220-460) | >12 (ISO VG 150-220) | >12 (ISO VG 150-1000) |
| FZG Prueba de tinción gris, 60°C, pasa | N/A      | N/A                  | 10                                       | 10                                          | 10                   | 10                   | N/A                  | N/A                   |
| ANSI/AGMA 9005-E02 4 EP                |          |                      |                                          | ✓                                           |                      |                      |                      |                       |
| ANSI/AGMA 9005-E02 5 EP                |          |                      |                                          | ✓                                           |                      |                      |                      |                       |
| ANSI/AGMA 9005-E02 6 EP                |          |                      |                                          | ✓                                           |                      |                      |                      |                       |
| ANSI/AGMA 9005-F16                     |          | •                    | •                                        | •                                           | •                    |                      |                      | •                     |
| Danieli 0.597647.G - CLP 220           |          | ☑                    |                                          |                                             |                      |                      |                      |                       |
| Danieli Standard 0.000.001-R15 (2023)  |          | ☑                    |                                          |                                             |                      |                      |                      |                       |
| DIN 51506 VBL                          | •        |                      |                                          |                                             |                      |                      |                      |                       |
| DIN 51515-1 L-TD                       | •        |                      |                                          |                                             |                      |                      |                      |                       |
| DIN 51517-2 CL                         | •        |                      |                                          |                                             |                      |                      |                      |                       |
| DIN 51517-3 CLP                        |          | •                    | •                                        |                                             | •                    |                      | ✓                    |                       |
| DIN 51517-3 CLP-HC                     |          |                      |                                          | •                                           |                      |                      |                      | •                     |
| DIN 51517-3 CLP-PG                     |          |                      |                                          |                                             |                      | •                    |                      |                       |
| DIN 51524-1 HL                         | •        |                      |                                          |                                             |                      |                      |                      |                       |
| IEC 61400-4                            |          |                      |                                          |                                             | •                    |                      |                      |                       |
| ISO 12925-1 CKC-CKD                    |          | •                    | •                                        | •                                           | •                    | •                    |                      | •                     |
| ISO 12925-1 CKE                        |          |                      |                                          | •                                           | •                    | •                    |                      | •                     |
| ISO 21469                              |          |                      |                                          |                                             |                      |                      | •                    |                       |
| ISO 6743-4 HL                          | •        |                      |                                          |                                             |                      |                      |                      |                       |
| Moventas Prueba de campo               |          |                      |                                          |                                             | ✓                    |                      |                      |                       |
| Siemens Flender MD rev. 16.2           |          |                      |                                          |                                             | ☑                    |                      |                      |                       |
| Winergy Prueba de campo                |          |                      |                                          |                                             | ✓                    |                      |                      |                       |

Gama de productos

| Nombre del producto |                  |                                                                                                                                                                                                             | Viscosidad<br>Cinemática<br>@ 40°C<br>(mm/s) | Biodegradabilidad<br>28 días<br>OECD 301B<br>(%) | Punto<br>Fluidez<br>(°C) | Punto<br>Inflamación<br>(°C) |
|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|--------------------------|------------------------------|
| Aplicaciones        | Hormigón         | Q8 da Vinci 6                                                                                                                                                                                               | 6                                            | 55                                               | -21                      | 130                          |
|                     |                  | Desmoldeo de conectores de tuberías de aguas residuales (moldeo en caída), elementos in situ y cerámicos, con aditivos anti-corrosión para moldes de acero (alto punto inflamación, color claro, bajo olor) |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci 8                                                                                                                                                                                               | 8                                            | 55                                               | -15                      | 140                          |
|                     |                  | Desmoldeo in situ de elementos en moldes verticales y templados, con aditivos anti-corrosión para moldes de acero (alto pto. Inflamación,color claro,bajo olor)                                             |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci 20                                                                                                                                                                                              | 20                                           |                                                  | -15                      | 130                          |
|                     |                  | Desmoldeo basado en capa lubricante para series industriales rápidas; con aditivos anti corrosión para los moldes                                                                                           |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci P6                                                                                                                                                                                              | 6                                            | 55                                               | -33                      | 134                          |
|                     |                  | Desmoldeo de conectores de tuberías de aguas residuales (moldeo en caída), elementos in situ y cerámicos, con aditivos anti-corrosión para moldes de acero (alto punto inflamación, color claro, bajo olor) |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci P8                                                                                                                                                                                              | 8                                            | 55                                               | -21                      | 148                          |
|                     |                  | Desmoldeo general de hormigón en moldes templados, con aditivos anti corrosión para moldes de acero (alto pto. Inflamación, color claro, bajo olor)                                                         |                                              |                                                  |                          |                              |
|                     | Hormigón aireado | Q8 da Vinci AM 4                                                                                                                                                                                            | 4                                            | 55                                               | -24                      | 128                          |
|                     |                  | Desmoldeo de pilares de hormigón prefabricado, elementos situ con aditivos de adhesión/bio anti-niebla, anti-corrosivos para moldes de acero (alto pto. Inflamación, color claro, bajo olor)                |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci AM 5                                                                                                                                                                                            | 5                                            | 55                                               | -30                      | 130                          |
|                     |                  | Desmoldeo de pilares de hormigón prefabricado, elementos situ con aditivos de adhesión/bio anti-niebla, anti-corrosivos para moldes de acero (alto pto. Inflamación, color claro, bajo olor)                |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dalton 100                                                                                                                                                                                               | 100                                          |                                                  | -12                      | 254                          |
|                     |                  | Desmoldeo de hormigón aireado                                                                                                                                                                               |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dalton 140                                                                                                                                                                                               | 140                                          |                                                  | -12                      | 280                          |
|                     |                  | Desmoldeo de hormigón aireado                                                                                                                                                                               |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dalton 320                                                                                                                                                                                               | 320                                          |                                                  | -12                      | 290                          |
|                     |                  | Desmoldeo de hormigón aireado                                                                                                                                                                               |                                              |                                                  |                          |                              |
|                     | Cerámicas        | Q8 Dalton 400                                                                                                                                                                                               | 400                                          |                                                  | -12                      | >220                         |
|                     |                  | Desmoldeo de hormigón aireado                                                                                                                                                                               |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dalton 500                                                                                                                                                                                               | 500                                          |                                                  | -12                      | 300                          |
|                     |                  | Desmoldeo de hormigón aireado (bajo olor, color claro, capa homogénea, limpieza del molde, anti-niebla)                                                                                                     |                                              |                                                  |                          |                              |
|                     | Asfalto          | Q8 Dino XL 12                                                                                                                                                                                               | 12                                           |                                                  | -9                       | 182                          |
|                     |                  | Anti-adherente sin disolventes y de bajo olor para rejillas de acero                                                                                                                                        |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dali 4                                                                                                                                                                                                   | 4                                            | 60                                               | -24                      | 128                          |
|                     |                  | Desmoldeo para series industriales rápidas para Eternit (fibra cemento), cerámicos, con aditivos anti corrosión del moldes                                                                                  |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dali 11                                                                                                                                                                                                  | 11                                           |                                                  | -15                      | 174                          |
|                     |                  | Desmoldeo para series industriales rápidas para Eternit (fibra cemento), cerámicos, con fuerte aditivos anti corrosión del moldes                                                                           |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dino 3.5                                                                                                                                                                                                 | 3.5                                          | 61                                               | -18                      | 130                          |
|                     |                  | Aceite anti-adherente, fácilmente biodegradable                                                                                                                                                             |                                              |                                                  |                          |                              |
|                     |                  | Q8 Dusart Bio 3.5                                                                                                                                                                                           | 3.6                                          | 73                                               | -9                       | 132                          |
|                     |                  | Aceite anti-adherente, fácilmente biodegradable                                                                                                                                                             |                                              |                                                  |                          |                              |
|                     |                  | Q8 da Vinci AM4                                                                                                                                                                                             | 4                                            | 55                                               | -24                      | 128                          |
|                     |                  | Aceite anti-adherente                                                                                                                                                                                       |                                              |                                                  |                          |                              |

P = Depresor Punto Fluidez; AM = Anti-Niebla; AMP = Anti-Niebla + Depresor Punto Fluidez; WS = Solubre en Agua

Gama de productos

| Q8 Gluck                                           |        |          | E                   | L     | M     | S     | H     | W      |
|----------------------------------------------------|--------|----------|---------------------|-------|-------|-------|-------|--------|
|                                                    | Método | Unidades | Datos de inspección |       |       |       |       |        |
| Densidad absoluta, 15°C                            | D 4052 | kg/m³    | 848                 | 862   | 868   | 873   | 878   | 884    |
| Viscosidad cinemática, 40°C                        | D 445  | mm²/s    | 8.00                | 12.25 | 20.22 | 35.61 | 60.15 | 128.00 |
| Viscosidad cinemática, 100°C                       | D 445  | mm²/s    | 2.30                | 2.92  | 4.00  | 5.77  | 7.99  | 13.20  |
| Índice de viscosidad                               | D 2270 | -        | 87                  | 80    | 89    | 102   | 98    | 96     |
| Punto de inflamación                               | D 92   | °C       | 154                 | 174   | 190   | 216   | 242   | 280    |
| Punto de fluidez                                   | D 97   | °C       | -42                 | -36   | -24   | -15   | -15   | -12    |
| Temperatura máxima de la película, sistema cerrado |        | °C       | 260                 | 280   | 330   | 330   | 320   | 300    |

| Q8 Gluck E  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m³    | W/m K                 | mPas                |             |
| 0           | 38.51                 | 1.833            | 859      | 0.1383                | 33.07               | 438         |
| 10          | 23.66                 | 1.870            | 852      | 0.1375                | 20.15               | 274         |
| 20          | 15.61                 | 1.907            | 844      | 0.1368                | 13.19               | 184         |
| 30          | 10.92                 | 1.943            | 837      | 0.1360                | 9.14                | 131         |
| 40          | 8.00                  | 1.980            | 830      | 0.1353                | 6.64                | 97          |
| 50          | 6.09                  | 2.017            | 823      | 0.1345                | 5.01                | 75          |
| 60          | 4.79                  | 2.054            | 816      | 0.1338                | 3.91                | 60          |
| 70          | 3.87                  | 2.091            | 809      | 0.1330                | 3.13                | 49          |
| 80          | 3.19                  | 2.128            | 802      | 0.1323                | 2.56                | 41          |
| 90          | 2.69                  | 2.164            | 795      | 0.1315                | 2.14                | 35          |
| 100         | 2.30                  | 2.201            | 787      | 0.1308                | 1.81                | 30          |
| 110         | 2.00                  | 2.238            | 780      | 0.1301                | 1.56                | 27          |
| 120         | 1.75                  | 2.275            | 773      | 0.1293                | 1.36                | 24          |
| 130         | 1.56                  | 2.312            | 766      | 0.1286                | 1.19                | 21          |
| 140         | 1.40                  | 2.348            | 759      | 0.1278                | 1.06                | 20          |
| 150         | 1.27                  | 2.385            | 752      | 0.1271                | 0.95                | 18          |
| 160         | 1.15                  | 2.422            | 745      | 0.1263                | 0.86                | 16          |
| 170         | 1.06                  | 2.459            | 738      | 0.1256                | 0.78                | 15          |
| 180         | 0.98                  | 2.496            | 731      | 0.1248                | 0.72                | 14          |
| 190         | 0.91                  | 2.533            | 723      | 0.1241                | 0.66                | 13          |
| 200         | 0.85                  | 2.569            | 716      | 0.1233                | 0.61                | 13          |
| 210         | 0.80                  | 2.606            | 709      | 0.1226                | 0.57                | 12          |
| 220         | 0.75                  | 2.643            | 702      | 0.1219                | 0.53                | 11          |
| 230         | 0.71                  | 2.680            | 695      | 0.1211                | 0.50                | 11          |
| 240         | 0.68                  | 2.717            | 688      | 0.1204                | 0.47                | 11          |
| 250         | 0.65                  | 2.754            | 681      | 0.1196                | 0.44                | 10          |
| 260         | 0.62                  | 2.790            | 674      | 0.1189                | 0.42                | 10          |
| 270         | 0.59                  | 2.827            | 666      | 0.1181                | 0.40                | 9           |
| 280         | 0.57                  | 2.864            | 659      | 0.1174                | 0.38                | 9           |
| 290         | 0.55                  | 2.901            | 652      | 0.1166                | 0.36                | 9           |
| 300         | 0.53                  | 2.938            | 645      | 0.1159                | 0.34                | 9           |
| 310         | 0.52                  | 2.975            | 638      | 0.1151                | 0.33                | 9           |
| 320         | 0.50                  | 3.011            | 631      | 0.1144                | 0.32                | 8           |
| 330         | 0.49                  | 3.048            | 624      | 0.1137                | 0.30                | 8           |

| Q8 Gluck L  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m³    | W/m K                 | mPas                |             |
| 0           | 79.21                 | 1.818            | 873      | 0.1360                | 69.12               | 924         |
| 10          | 44.17                 | 1.854            | 866      | 0.1353                | 38.23               | 524         |
| 20          | 26.93                 | 1.891            | 858      | 0.1345                | 23.12               | 325         |
| 30          | 17.64                 | 1.928            | 851      | 0.1338                | 15.02               | 216         |
| 40          | 12.25                 | 1.964            | 844      | 0.1331                | 10.34               | 153         |
| 50          | 8.92                  | 2.001            | 837      | 0.1323                | 7.46                | 113         |
| 60          | 6.75                  | 2.037            | 830      | 0.1316                | 5.60                | 87          |
| 70          | 5.28                  | 2.074            | 823      | 0.1309                | 4.34                | 69          |
| 80          | 4.24                  | 2.110            | 816      | 0.1301                | 3.46                | 56          |
| 90          | 3.48                  | 2.147            | 809      | 0.1294                | 2.82                | 47          |
| 100         | 2.92                  | 2.183            | 801      | 0.1287                | 2.34                | 40          |
| 110         | 2.49                  | 2.220            | 794      | 0.1279                | 1.98                | 34          |
| 120         | 2.15                  | 2.256            | 787      | 0.1272                | 1.69                | 30          |
| 130         | 1.88                  | 2.293            | 780      | 0.1265                | 1.47                | 2           |
| 140         | 1.67                  | 2.329            | 773      | 0.1257                | 1.29                | 2           |
| 150         | 1.49                  | 2.366            | 766      | 0.1250                | 1.14                | 22          |
| 160         | 1.35                  | 2.402            | 759      | 0.1243                | 1.02                | 20          |
| 170         | 1.22                  | 2.439            | 752      | 0.1235                | 0.92                | 18          |
| 180         | 1.12                  | 2.475            | 745      | 0.1228                | 0.84                | 17          |
| 190         | 1.03                  | 2.512            | 737      | 0.1221                | 0.76                | 16          |
| 200         | 0.96                  | 2.548            | 730      | 0.1213                | 0.70                | 15          |
| 210         | 0.89                  | 2.585            | 723      | 0.1206                | 0.65                | 14          |
| 220         | 0.84                  | 2.622            | 716      | 0.1199                | 0.60                | 13          |
| 230         | 0.79                  | 2.658            | 709      | 0.1191                | 0.56                | 12          |
| 240         | 0.75                  | 2.695            | 702      | 0.1184                | 0.52                | 12          |
| 250         | 0.71                  | 2.731            | 695      | 0.1177                | 0.49                | 11          |
| 260         | 0.67                  | 2.768            | 688      | 0.1169                | 0.46                | 11          |
| 270         | 0.64                  | 2.804            | 680      | 0.1162                | 0.44                | 11          |
| 280         | 0.62                  | 2.841            | 673      | 0.1155                | 0.41                | 10          |
| 290         | 0.59                  | 2.877            | 666      | 0.1147                | 0.39                | 10          |
| 300         | 0.57                  | 2.914            | 659      | 0.1140                | 0.38                | 10          |
| 310         | 0.55                  | 2.950            | 652      | 0.1133                | 0.36                | 9           |
| 320         | 0.53                  | 2.987            | 645      | 0.1125                | 0.34                | 9           |
| 330         | 0.52                  | 3.023            | 638      | 0.1118                | 0.33                | 9           |

| Q8 Gluck M  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m³    | W/m K                 | mPas                |             |
| 0           | 171.44                | 1.812            | 878      | 0.1351                | 150.61              | 2020        |
| 10          | 87.73                 | 1.848            | 871      | 0.1343                | 76.46               | 1052        |
| 20          | 49.76                 | 1.884            | 865      | 0.1336                | 43.02               | 607         |
| 30          | 30.67                 | 1.921            | 858      | 0.1329                | 26.30               | 380         |
| 40          | 20.22                 | 1.957            | 851      | 0.1322                | 17.20               | 255         |
| 50          | 14.09                 | 1.994            | 844      | 0.1314                | 11.88               | 180         |
| 60          | 10.27                 | 2.030            | 837      | 0.1307                | 8.59                | 133         |
| 70          | 7.78                  | 2.066            | 830      | 0.1300                | 6.45                | 103         |
| 80          | 6.08                  | 2.103            | 823      | 0.1292                | 5.00                | 81          |
| 90          | 4.88                  | 2.139            | 816      | 0.1285                | 3.98                | 66          |
| 100         | 4.00                  | 2.176            | 809      | 0.1278                | 3.23                | 55          |
| 110         | 3.35                  | 2.212            | 802      | 0.1271                | 2.68                | 47          |
| 120         | 2.85                  | 2.248            | 795      | 0.1263                | 2.26                | 40          |
| 130         | 2.45                  | 2.285            | 788      | 0.1256                | 1.93                | 35          |
| 140         | 2.14                  | 2.321            | 781      | 0.1249                | 1.67                | 31          |
| 150         | 1.89                  | 2.358            | 774      | 0.1241                | 1.47                | 28          |
| 160         | 1.69                  | 2.394            | 767      | 0.1234                | 1.30                | 25          |
| 170         | 1.52                  | 2.430            | 760      | 0.1227                | 1.16                | 23          |
| 180         | 1.38                  | 2.467            | 753      | 0.1220                | 1.04                | 21          |
| 190         | 1.26                  | 2.503            | 746      | 0.1212                | 0.94                | 19          |
| 200         | 1.16                  | 2.540            | 739      | 0.1205                | 0.86                | 18          |
| 210         | 1.07                  | 2.576            | 732      | 0.1198                | 0.78                | 17          |
| 220         | 1.00                  | 2.612            | 725      | 0.1190                | 0.72                | 16          |
| 230         | 0.93                  | 2.649            | 718      | 0.1183                | 0.67                | 15          |
| 240         | 0.87                  | 2.685            | 711      | 0.1176                | 0.62                | 14          |
| 250         | 0.82                  | 2.722            | 704      | 0.1169                | 0.58                | 13          |
| 260         | 0.78                  | 2.758            | 697      | 0.1161                | 0.54                | 13          |
| 270         | 0.74                  | 2.794            | 690      | 0.1154                | 0.51                | 12          |
| 280         | 0.70                  | 2.831            | 683      | 0.1147                | 0.48                | 12          |
| 290         | 0.67                  | 2.867            | 676      | 0.1140                | 0.45                | 11          |
| 300         | 0.64                  | 2.904            | 669      | 0.1132                | 0.43                | 11          |
| 310         | 0.62                  | 2.940            | 662      | 0.1125                | 0.41                | 11          |
| 320         | 0.60                  | 2.976            | 655      | 0.1118                | 0.39                | 10          |
| 330         | 0.58                  | 3.013            | 648      | 0.1110                | 0.37                | 10          |

Gama de productos

| Q8 Gluck S  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m3    | W/m K                 | mPas                |             |
| 0           | 395.80                | 1.806            | 883      | 0.1343                | 349.60              | 4703        |
| 10          | 186.32                | 1.843            | 876      | 0.1336                | 163.30              | 2253        |
| 20          | 98.34                 | 1.879            | 870      | 0.1328                | 85.52               | 1210        |
| 30          | 56.97                 | 1.915            | 863      | 0.1321                | 49.15               | 712         |
| 40          | 35.61                 | 1.952            | 856      | 0.1314                | 30.48               | 453         |
| 50          | 23.70                 | 1.988            | 849      | 0.1307                | 20.12               | 306         |
| 60          | 16.60                 | 2.024            | 842      | 0.1300                | 13.98               | 218         |
| 70          | 12.15                 | 2.061            | 835      | 0.1292                | 10.14               | 162         |
| 80          | 9.21                  | 2.097            | 828      | 0.1285                | 7.63                | 124         |
| 90          | 7.20                  | 2.133            | 822      | 0.1278                | 5.91                | 99          |
| 100         | 5.77                  | 2.169            | 815      | 0.1271                | 4.70                | 80          |
| 110         | 4.73                  | 2.206            | 808      | 0.1263                | 3.82                | 67          |
| 120         | 3.95                  | 2.242            | 801      | 0.1256                | 3.16                | 56          |
| 130         | 3.35                  | 2.278            | 794      | 0.1249                | 2.66                | 49          |
| 140         | 2.89                  | 2.315            | 787      | 0.1242                | 2.27                | 42          |
| 150         | 2.51                  | 2.351            | 780      | 0.1234                | 1.96                | 37          |
| 160         | 2.22                  | 2.387            | 774      | 0.1227                | 1.71                | 33          |
| 170         | 1.97                  | 2.423            | 767      | 0.1220                | 1.51                | 30          |
| 180         | 1.77                  | 2.460            | 760      | 0.1213                | 1.35                | 27          |
| 190         | 1.60                  | 2.496            | 753      | 0.1205                | 1.21                | 25          |
| 200         | 1.46                  | 2.532            | 746      | 0.1198                | 1.09                | 23          |
| 210         | 1.34                  | 2.569            | 739      | 0.1191                | 0.99                | 21          |
| 220         | 1.23                  | 2.605            | 732      | 0.1184                | 0.90                | 20          |
| 230         | 1.14                  | 2.641            | 726      | 0.1176                | 0.83                | 19          |
| 240         | 1.07                  | 2.678            | 719      | 0.1169                | 0.77                | 18          |
| 250         | 1.00                  | 2.714            | 712      | 0.1162                | 0.71                | 17          |
| 260         | 0.94                  | 2.750            | 705      | 0.1155                | 0.66                | 16          |
| 270         | 0.88                  | 2.786            | 698      | 0.1147                | 0.62                | 15          |
| 280         | 0.84                  | 2.823            | 691      | 0.1140                | 0.58                | 14          |
| 290         | 0.79                  | 2.859            | 684      | 0.1133                | 0.54                | 14          |
| 300         | 0.76                  | 2.895            | 677      | 0.1126                | 0.51                | 13          |
| 310         | 0.72                  | 2.932            | 671      | 0.1119                | 0.48                | 13          |
| 320         | 0.69                  | 2.968            | 664      | 0.1111                | 0.46                | 12          |
| 330         | 0.66                  | 3.004            | 657      | 0.1104                | 0.44                | 12          |

| Q8 Gluck H  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m3    | W/m K                 | mPas                |             |
| 0           | 876.60                | 1.801            | 888      | 0.1335                | 778.50              | 10502       |
| 10          | 379.51                | 1.837            | 881      | 0.1328                | 334.49              | 4628        |
| 20          | 186.40                | 1.874            | 875      | 0.1321                | 163.03              | 2313        |
| 30          | 101.50                | 1.910            | 868      | 0.1314                | 88.09               | 1281        |
| 40          | 60.15                 | 1.946            | 861      | 0.1307                | 51.80               | 772         |
| 50          | 38.23                 | 1.982            | 854      | 0.1299                | 32.66               | 498         |
| 60          | 25.74                 | 2.018            | 848      | 0.1292                | 21.82               | 341         |
| 70          | 18.19                 | 2.055            | 841      | 0.1285                | 15.30               | 245         |
| 80          | 13.39                 | 2.091            | 834      | 0.1278                | 11.17               | 183         |
| 90          | 10.20                 | 2.127            | 828      | 0.1271                | 8.44                | 141         |
| 100         | 7.99                  | 2.163            | 821      | 0.1263                | 6.56                | 112         |
| 110         | 6.42                  | 2.199            | 814      | 0.1256                | 5.22                | 91          |
| 120         | 5.27                  | 2.236            | 807      | 0.1249                | 4.25                | 76          |
| 130         | 4.40                  | 2.272            | 801      | 0.1242                | 3.52                | 64          |
| 140         | 3.73                  | 2.308            | 794      | 0.1235                | 2.96                | 55          |
| 150         | 3.21                  | 2.344            | 787      | 0.1227                | 2.53                | 48          |
| 160         | 2.80                  | 2.380            | 780      | 0.1220                | 2.18                | 43          |
| 170         | 2.46                  | 2.417            | 774      | 0.1213                | 1.91                | 38          |
| 180         | 2.19                  | 2.453            | 767      | 0.1206                | 1.68                | 34          |
| 190         | 1.96                  | 2.489            | 760      | 0.1199                | 1.49                | 31          |
| 200         | 1.78                  | 2.525            | 753      | 0.1191                | 1.34                | 28          |
| 210         | 1.62                  | 2.561            | 747      | 0.1184                | 1.21                | 26          |
| 220         | 1.48                  | 2.598            | 740      | 0.1177                | 1.09                | 24          |
| 230         | 1.36                  | 2.634            | 733      | 0.1170                | 1.00                | 22          |
| 240         | 1.26                  | 2.670            | 727      | 0.1163                | 0.92                | 21          |
| 250         | 1.17                  | 2.706            | 720      | 0.1155                | 0.84                | 20          |
| 260         | 1.10                  | 2.742            | 713      | 0.1148                | 0.78                | 19          |
| 270         | 1.03                  | 2.779            | 706      | 0.1141                | 0.73                | 18          |
| 280         | 0.97                  | 2.815            | 700      | 0.1134                | 0.68                | 17          |
| 290         | 0.91                  | 2.851            | 693      | 0.1127                | 0.63                | 16          |
| 300         | 0.87                  | 2.887            | 686      | 0.1119                | 0.59                | 15          |
| 310         | 0.82                  | 2.923            | 679      | 0.1112                | 0.56                | 15          |
| 320         | 0.79                  | 2.959            | 673      | 0.1105                | 0.53                | 14          |
| 330         | 0.75                  | 2.996            | 666      | 0.1098                | 0.50                | 14          |

| Q8 Gluck W  |                       |                  |          |                       |                     |             |
|-------------|-----------------------|------------------|----------|-----------------------|---------------------|-------------|
| Temperatura | Viscosidad cinemática | Calor específico | Densidad | Conductividad térmica | Viscosidad dinámica | Prandtl nr° |
| °C          | mm²/s                 | kJ/kg K          | kg/m3    | W/m K                 | mPas                |             |
| 0           | 2520.99               | 1.795            | 894      | 0.1326                | 2253.51             | 30502       |
| 10          | 998.97                | 1.831            | 887      | 0.1319                | 886.38              | 12305       |
| 20          | 453.31                | 1.867            | 881      | 0.1312                | 399.23              | 5682        |
| 30          | 230.00                | 1.903            | 874      | 0.1305                | 201.04              | 2933        |
| 40          | 128.00                | 1.939            | 868      | 0.1298                | 111.04              | 1660        |
| 50          | 76.93                 | 1.976            | 861      | 0.1291                | 66.23               | 1014        |
| 60          | 49.31                 | 2.012            | 854      | 0.1283                | 42.12               | 660         |
| 70          | 33.35                 | 2.048            | 848      | 0.1276                | 28.27               | 454         |
| 80          | 23.61                 | 2.084            | 841      | 0.1269                | 19.86               | 326         |
| 90          | 17.37                 | 2.120            | 835      | 0.1262                | 14.49               | 243         |
| 100         | 13.20                 | 2.156            | 828      | 0.1255                | 10.93               | 188         |
| 110         | 10.32                 | 2.192            | 821      | 0.1248                | 8.47                | 149         |
| 120         | 8.26                  | 2.228            | 815      | 0.1240                | 6.73                | 121         |
| 130         | 6.75                  | 2.264            | 808      | 0.1233                | 5.46                | 100         |
| 140         | 5.62                  | 2.300            | 802      | 0.1226                | 4.50                | 84          |
| 150         | 4.75                  | 2.336            | 795      | 0.1219                | 3.78                | 72          |
| 160         | 4.07                  | 2.372            | 788      | 0.1212                | 3.21                | 63          |
| 170         | 3.53                  | 2.408            | 782      | 0.1205                | 2.76                | 55          |
| 180         | 3.10                  | 2.444            | 775      | 0.1198                | 2.40                | 49          |
| 190         | 2.74                  | 2.481            | 769      | 0.1190                | 2.11                | 44          |
| 200         | 2.45                  | 2.517            | 762      | 0.1183                | 1.87                | 40          |
| 210         | 2.21                  | 2.553            | 755      | 0.1176                | 1.67                | 36          |
| 220         | 2.00                  | 2.589            | 749      | 0.1169                | 1.50                | 33          |
| 230         | 1.82                  | 2.625            | 742      | 0.1162                | 1.35                | 31          |
| 240         | 1.67                  | 2.661            | 736      | 0.1155                | 1.23                | 28          |
| 250         | 1.54                  | 2.697            | 729      | 0.1147                | 1.12                | 26          |
| 260         | 1.43                  | 2.733            | 722      | 0.1140                | 1.03                | 25          |
| 270         | 1.33                  | 2.769            | 716      | 0.1133                | 0.95                | 23          |
| 280         | 1.24                  | 2.805            | 709      | 0.1126                | 0.88                | 22          |
| 290         | 1.17                  | 2.841            | 703      | 0.1119                | 0.82                | 21          |
| 300         | 1.10                  | 2.877            | 696      | 0.1112                | 0.76                | 20          |
| 310         | 1.04                  | 2.913            | 689      | 0.1105                | 0.72                | 19          |
| 320         | 0.98                  | 2.949            | 683      | 0.1097                | 0.67                | 18          |
| 330         | 0.93                  | 2.985            | 676      | 0.1090                | 0.63                | 17          |

### 3. Energía



Gama de productos

|                                   |                           | Estacionario       |     |         |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     |         |             |     |         |
|-----------------------------------|---------------------------|--------------------|-----|---------|--------------|-----|---------|--------------|-----|---------|--------------|-----|---------|--------------|-----|---------|---------------|-----|---------|---------------|-----|---------|---------------|-----|---------|-------------|-----|---------|
| Producto                          | Cenizas sulfatadas<br>TBN | Jenbacher S Oil 40 |     |         | Q8 Mahler MA |     |         | Q8 Mahler HA |     |         | Q8 Mahler G5 |     |         | Q8 Mahler G8 |     |         | Q8 Mahler G10 |     |         | Q8 Mahler GR5 |     |         | Q8 Mahler GR8 |     |         | Q8 Mahler R |     |         |
|                                   |                           | 0.8                |     |         | 0.5          |     |         | 0.9          |     |         | 0.5          |     |         | 0.8          |     |         | 1             |     |         | 0.5           |     |         | 0.8           |     |         | 0.55        |     |         |
|                                   |                           | 8                  |     |         | 5.5          |     |         | 7.9          |     |         | 6            |     |         | 8            |     |         | 10            |     |         | 6             |     |         | 8             |     |         | 7           |     |         |
| Tipo Gas                          |                           | Vertedero          | Bio | Natural | Vertedero    | Bio | Natural | Vertedero    | Bio | Natural | Vertedero    | Bio | Natural | Vertedero    | Bio | Natural | Vertedero     | Bio | Natural | Vertedero     | Bio | Natural | Vertedero     | Bio | Natural | Vertedero   | Bio | Natural |
|                                   |                           |                    |     |         |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     |         |             |     |         |
| Fabricante de equipos originales  |                           |                    |     |         |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     |         |             |     |         |
| MAN                               | M3271-2 / -4              |                    |     |         |              |     | A       | A            | A   |         | Q            | Q   | Q       | A            | A   | Q       | Q             | Q   |         | Q             | Q   | A       | A             | A   | Q       |             |     |         |
| MWM                               |                           |                    |     |         | A            | A   | A       | A            | A   |         | A            | A   | A       | A            | A   | A       | Q             | Q   |         | A             | A   | A       | A             | A   | A       |             |     |         |
| Caterpillar Energy Solutions GmbH |                           |                    |     |         | A            | A   | A       | A            | A   |         | A            | A   | A       | A            | A   | A       | Q             | Q   |         | A             | A   | A       | A             | A   | A       |             |     |         |
| Deutz AG                          |                           |                    |     |         | A            | A   | A       |              |     |         | A            | A   | A       | Q            | Q   | Q       | Q             | Q   |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
| INNIO Jenbacher                   | Serie 2                   | A                  | A   | Q       |              |     | Q       | A            | A   |         | A            | A   | A       | A            | A   | A       | Q             | Q   |         | Q             | A   | A       | A             | A   | A       |             |     |         |
|                                   | Serie 3                   | A                  | A   | Q       |              |     | Q       | A            | A   |         | A            | A   | A       | A            | A   | A       | Q             | Q   |         | Q             | A   | A       | A             | A   | A       |             |     |         |
|                                   | Serie 4                   | A                  | A   | Q       |              |     |         |              |     |         | A            | A   | A       | A            | Q   | Q       | Q             |     |         | Q             | A*  | A       | Q             | Q   | Q       |             |     |         |
|                                   | Serie 6                   | A                  | A   | Q       |              |     |         |              |     |         | A*           | A*  | A       | Q            | Q   | A       |               |     |         | Q             | A   | A       | A             | A   | A       |             |     |         |
|                                   | Serie 6 version H & K     |                    |     | Q       |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     | A       |             |     |         |
|                                   | Serie 9                   |                    |     | Q       |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     | A       |             |     |         |
|                                   | Catalysts                 | A                  | A   | Q       |              |     |         |              |     |         | A            | A   | A       | A            | A   | A       |               |     |         | A             | A   | A       | A             | A   | A       |             |     |         |
| GE Waukesha                       | VSGseries                 |                    |     |         |              |     | A       | Q            | Q   | A       | Q            | Q   | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
|                                   | VGF series                |                    |     |         | Q            | Q   | A       |              |     | Q       | Q            | Q   | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
|                                   | VHP series                |                    |     |         | Q            | Q   | A       | Q**          | Q** | A**     | Q            | Q   | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
|                                   | AT 25/27 GL series        |                    |     |         |              |     | A       | Q            | Q   | A       | Q            | Q   | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
|                                   | APG series                |                    |     |         |              |     | A       |              |     |         | Q            | Q   | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
| Guascor                           | FGLD & SFGLD              |                    |     |         |              |     |         | Q            | Q   | Q       |              |     |         | Q            | Q   | A       | Q             | Q   | Q       | Q             | Q   | Q       | Q             | Q   |         |             |     |         |
| Rolls-Royce Power System          | K series                  |                    |     |         |              |     | A*      |              |     |         |              |     |         |              |     |         |               |     |         | Q             | Q   | Q       | Q             |     |         | A           | A   | A       |
| Bergen Engines                    | B series                  |                    |     |         |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         | A             | A   | A       | T             | T   | T       |             |     |         |
| MTU Onsite Energie                | 400 Series (MDE)          |                    |     |         |              |     | A       | A            | A   |         |              |     | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
|                                   | 4000 Series               |                    |     |         |              |     |         |              |     |         |              |     | Q       | Q            | Q   | Q       | Q             |     |         | Q             | Q   | Q       | Q             | Q   | Q       |             |     |         |
| TEDOM                             |                           |                    |     |         |              |     | Q       | A            | A   | A       | Q            | Q   | Q       | Q            | Q   | Q       |               |     |         | A             | A   | A       | A             | A   | A       |             |     |         |
| Perkins                           |                           |                    |     |         |              |     | A       | Q            | Q   |         |              |     | Q       | Q            | Q   | Q       | Q             |     |         |               |     | Q       | Q             | Q   | Q       |             |     |         |
| Cummins                           |                           |                    |     |         |              |     |         |              |     |         |              |     | Q       | Q            | Q   | Q       | Q             |     |         |               |     | Q       | Q             | Q   | Q       |             |     |         |
| Liebherr                          |                           |                    |     |         |              |     |         |              |     |         |              | Q   | Q       | Q            | Q   | Q       | Q             | Q   |         |               |     | Q       | Q             | Q   | Q       |             |     |         |
| Compañía de servicio              |                           |                    |     |         |              |     |         |              |     |         |              |     |         |              |     |         |               |     |         |               |     |         |               |     |         |             |     |         |
| Senergie                          |                           |                    |     |         |              | A   | A       | A            | A   |         |              | Q   | Q       | Q            | Q   |         |               |     |         |               | Q   | Q       | Q             | Q   | Q       |             |     |         |

**Legenda**

A Aprobación Oficial

T Ensayos Iniciados

Q Recomendación Q8Oils

\* depende del modelo, año y BMEP

\*\* depende del modelo de motor y nivel de cenizas permitido

|                | Producto             | Tipo Gas                                               | Aprobaciones y recomendaciones OEM                                 |
|----------------|----------------------|--------------------------------------------------------|--------------------------------------------------------------------|
|                |                      |                                                        |                                                                    |
| móviles        | Q8 Mahler C 15W-40   | Natural (comprimido o líquido)                         | API CF; Cummins CES 20074                                          |
|                | Q8 Mahler T 15W-40   | Natural (comprimido o líquido) o LPG                   | API CF-4; Renault VI RGD; DAF LPF; MB 226.9; MAN 3271-1; Volvo CNG |
|                | Q8 FT 8500 10W-40    | Natural (comprimido o líquido) o LPG                   | API CJ-4; MAN 3271-1; MB 226.9; RVI RGD, Volvo CNG                 |
|                | Q8 FT 8600 10W-40    | Natural (comprimido o líquido) o LPG                   | API CJ-4; MAN 3271-1; MB 226.9; RVI RGD, Volvo CNG                 |
|                | Q8 FT 8700 FE 5W-30  | Natural (comprimido o líquido) o LPG                   | API CJ-4; MAN 3271-1; RVI RGD, Volvo CNG                           |
| Anticongelante | Q8 Mahler Cool 40/60 | TEDOM, GE Jenbacher, Caterpillar Energy Solutions, MWM |                                                                    |
|                | Q8 Antifreeze LL     | TEDOM, GE Jenbacher, Caterpillar Energy Solutions, MWM |                                                                    |

Especificaciones y recomendaciones (1 / 1)

Leyenda

- Especificación
- (dd. 04/04/2025)
- ☒

Aprobación
- ☒

Aprobación pendiente
- ☒

Recomendación

|                                                                              | Jenbacher S Oil 40                  | Q8 Mahler MA SAE 40                 | Q8 Mahler HA SAE 40                 | Q8 Mahler G5 SAE 40                 | Q8 Mahler G8 SAE 40                 | Q8 Mahler G10 SAE 40 | Q8 Mahler GR5 SAE 40                | Q8 Mahler GR8 SAE 40                | Q8 Mahler R SAE 40                  |
|------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Caterpillar Energy Solutions CG132, CG170, CG260                             |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| Deutz 0199-99-01213                                                          |                                     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| Guascor Power FGLD, SFGLD series                                             |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, convertidor catalítico aprobado                | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| INNIO Jenbacher TA 1000-1109, intervalo de cambio de aceite prolongado       | <input checked="" type="checkbox"/> |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 2, Serie 3 - Clase de combustible A, B    |                                     |                                     |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 2, Serie 3 - Clase de combustible A, B, C |                                     |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                      |                                     | <input checked="" type="checkbox"/> |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 2, Serie 3 - Clase de combustible B, C    | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (A y B) - Clase de combustible A, B     |                                     |                                     |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (A y B) - Clase de combustible A, B, C  |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (A y B) - Clase de combustible B, C     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (C) - Clase de combustible A, B         |                                     |                                     |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (C) - Clase de combustible A, B, C      |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 4 (C) - Clase de combustible B, C         | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (C y E) - Clase de combustible A, B     |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (C y E) - Clase de combustible A, B, C  |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (C y E) - Clase de combustible B, C     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (F y J) - Clase de combustible B, C     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                      |                                     |                                     |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (F) - Clase de combustible A            |                                     |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                      |                                     | <input checked="" type="checkbox"/> |                                     |
| INNIO Jenbacher TA 1000-1109, Tipo 6 (F) - Clase de combustible A, B         |                                     |                                     |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| INNIO Jenbacher Tipo 9 - Clase de combustible A                              |                                     |                                     |                                     |                                     |                                     |                      |                                     | <input checked="" type="checkbox"/> |                                     |
| INNIO Waukesha 12-1880                                                       |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                      |                                     |                                     |                                     |
| MAN M 3271-2 (Gas natural)                                                   |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| MAN M 3271-4 (Gases especiales)                                              |                                     |                                     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                      |                                     | <input checked="" type="checkbox"/> |                                     |
| MTU Onsite Energy serie 400                                                  |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                      |                                     |                                     |                                     |
| MWM 0199-99-02105                                                            |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| Perkins 4006, 4008 series                                                    |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                      |                                     |                                     |                                     |
| Rolls-Royce Bergen serie B                                                   |                                     |                                     |                                     |                                     |                                     |                      | <input checked="" type="checkbox"/> |                                     |                                     |
| Rolls-Royce Bergen serie K                                                   |                                     |                                     |                                     |                                     |                                     |                      |                                     |                                     | <input checked="" type="checkbox"/> |
| Tedom 61-0-0281                                                              |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| Wärtsilä 175SG                                                               |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| Wärtsilä 20DF                                                                |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| Wärtsilä 25SG                                                                |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |
| Wärtsilä 28SG                                                                |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                      |                                     |                                     |                                     |

Leyenda

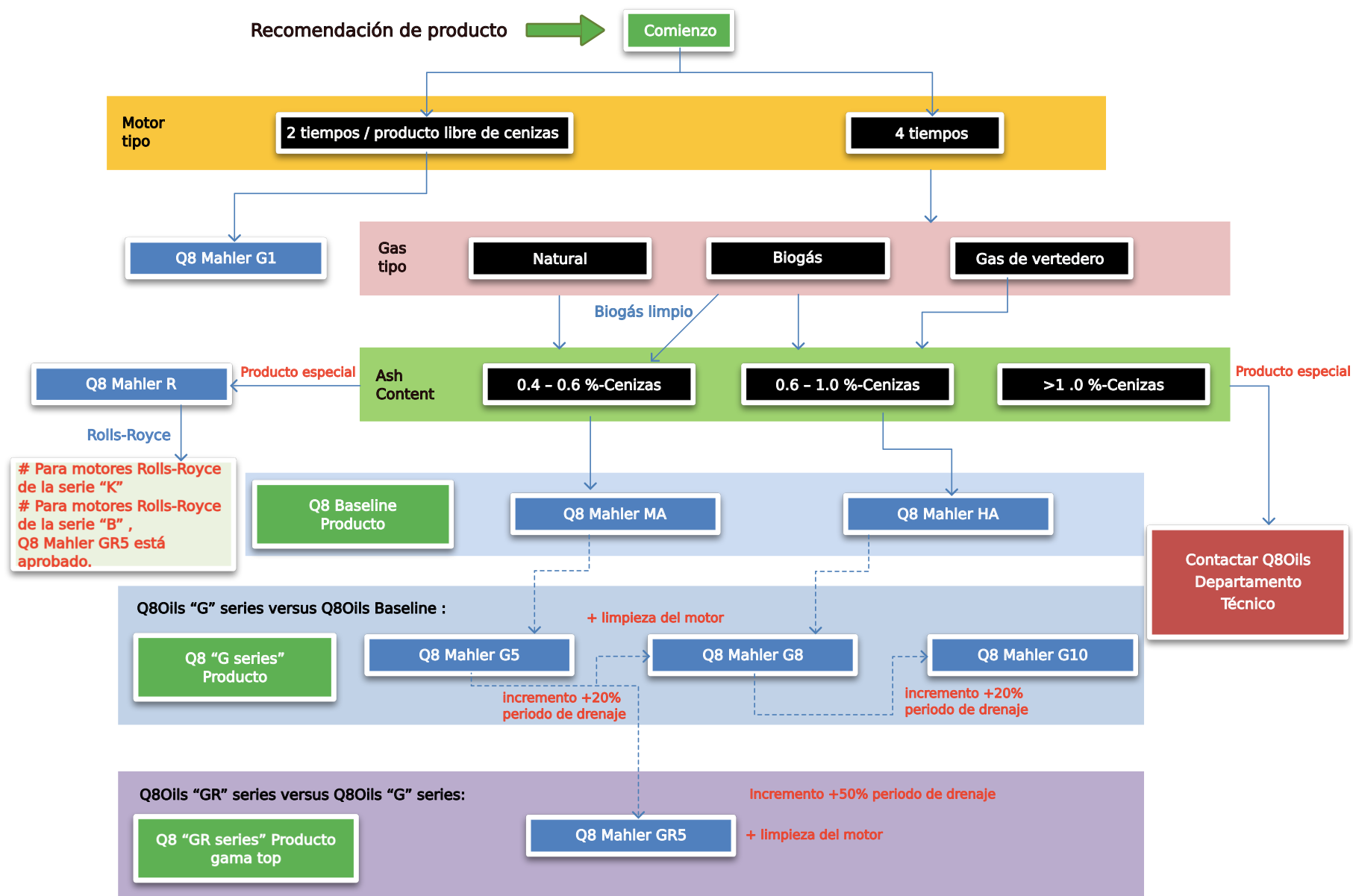
- Especificación
- (dd. 04/04/2025)
- ☒

Aprobación
- ☒

Aprobación pendiente
- ☒

Recomendación

|               | Jenbacher S Oil 40 | Q8 Mahler MA SAE 40 | Q8 Mahler HA SAE 40 | Q8 Mahler G5 SAE 40                 | Q8 Mahler G8 SAE 40 | Q8 Mahler G10 SAE 40 | Q8 Mahler GR5 SAE 40 | Q8 Mahler GR8 SAE 40 | Q8 Mahler R SAE 40 |
|---------------|--------------------|---------------------|---------------------|-------------------------------------|---------------------|----------------------|----------------------|----------------------|--------------------|
| Wärtsilä 31DF |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 31SG |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 32DF |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 34DF |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 34SG |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 46DF |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 50DF |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |
| Wärtsilä 50SG |                    |                     |                     | <input checked="" type="checkbox"/> |                     |                      |                      |                      |                    |



Especificaciones & recomendaciones (1 / 1)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - Aprobación
  - Aprobación pendiente
  - Recomendación

| Q8 van Gogh 22 | Q8 van Gogh 32 | Q8 van Gogh 46 | Q8 van Gogh 68 | Q8 van Gogh 100 | Q8 van Gogh 150 | Q8 van Gogh EP 32 | Q8 van Gogh EP 46 | Q8 van Gogh EP 68 | Q8 van Gogh EP 100 | Q8 van Gogh EP 150 | Q8 Volta 32 | Q8 Volta 46 | Q8 Volta EP 32 | Q8 Volta EP 46 |
|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------|-------------|----------------|----------------|
|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------|-------------|----------------|----------------|

|                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Alstom Power HTGD 90117        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASTM D 4304, Type I            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASTM D 4304, Type II (EP)      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| British Standard 489           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chinese Standard GB 11120-2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIN 51515-1 L-TD               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIN 51515-1 L-TDP              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIN 51515-2 L-TG               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIN 51515-2 L-TGP              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 101941           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 107395           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 120498           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 121608           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 28143            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 32568            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 32568h           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 46357            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Energy GEK 46506            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GE Thermodyn ISPSH901SDI       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indian Standard IS 1012:2002   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGA               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGB               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGE               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGF               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGSB              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TGSE              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TSA               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 6743-5 L-TSE               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISO 8068                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JIS K 2213 Type 2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAN Turbo SPD 10000494596      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Leyenda

- (dd. 04/04/2025)
- Especificación
  - Aprobación
  - Aprobación pendiente
  - Recomendación

| Q8 van Gogh 22 | Q8 van Gogh 32 | Q8 van Gogh 46 | Q8 van Gogh 68 | Q8 van Gogh 100 | Q8 van Gogh 150 | Q8 van Gogh EP 32 | Q8 van Gogh EP 46 | Q8 van Gogh EP 68 | Q8 van Gogh EP 100 | Q8 van Gogh EP 150 | Q8 Volta 32 | Q8 Volta 46 | Q8 Volta EP 32 | Q8 Volta EP 46 |
|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------|-------------|----------------|----------------|
|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------|-------------|----------------|----------------|

|                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Siemens MAT812108                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Siemens MAT812109                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Siemens TLV 9013 04                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Siemens TLV 9013 05                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Siemens Westinghouse M-Spec 55125Z3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Solar Turbines ES 9-224 (Clase I)   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Solar Turbines ES 9-224 (Clase II)  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Turbomach ES 9-224 (Clase I)        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Turbomach ES 9-224 (Clase II)       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Especificaciones & recomendaciones (1 / 1)

Leyenda

- (dd. 04/04/2025)
- Especificación
  - ☑ Aprobación
  - ☑\* Aprobación pendiente
  - ✓ Recomendación

|  | Q8 Verdi | Q8 Schubert | Q8 Schumann | Q8 Strauss | Q8 Sinan | Q8 Rossini CO | Q8 Stravinsky | Q8 Stravinsky AB | Q8 Stravinsky N | Q8 Stravinsky POE |
|--|----------|-------------|-------------|------------|----------|---------------|---------------|------------------|-----------------|-------------------|
|--|----------|-------------|-------------|------------|----------|---------------|---------------|------------------|-----------------|-------------------|

|                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|
| Mineral (Grupo I)                                                                                                                   | ✓ |   |   |   |   |   |   |   | ✓ |   |
| Mineral (Grupo II)                                                                                                                  |   | ✓ |   | ✓ |   |   |   |   |   |   |
| AB (Alquilbenceno)                                                                                                                  |   |   |   |   |   |   |   | ✓ |   |   |
| PAO (Poly Alpha Olefine)                                                                                                            |   |   | ✓ |   |   | ✓ |   |   |   |   |
| PAO + AB                                                                                                                            |   |   |   |   |   |   | ✓ |   |   |   |
| POE (éster de poliol sintético)                                                                                                     |   |   |   |   |   |   |   |   |   | ✓ |
| PAG (polialquilenglicol)                                                                                                            |   |   |   |   | ✓ |   |   |   |   |   |
| Compresores de tornillo (de aire)                                                                                                   |   | ✓ | ✓ |   |   | ✓ |   |   |   |   |
| Compresores de aire recíprocentes                                                                                                   |   | ✓ | ✓ |   |   | ✓ |   |   |   |   |
| Bombas de vacío                                                                                                                     |   |   | ✓ |   |   | ✓ |   |   |   |   |
| Compresores a gas de síntesis                                                                                                       |   |   |   | ✓ |   |   |   |   |   |   |
| Compresores rotativos y alternativos en los que el lubricante está en contacto continuo con el gas (hidrocarburos y gases químicos) |   |   |   |   | ✓ |   |   |   |   |   |
| Compresores frigoríficos, pistón o tornillo (Tipos de Gas, ver página siguiente)                                                    |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
| Compresores que no requieren la utilización de aceites específicos para compresores                                                 | ✓ |   |   |   |   |   |   |   |   |   |

|                  |   |   |   |   |  |   |  |  |  |  |
|------------------|---|---|---|---|--|---|--|--|--|--|
| DIN 51506 VBL    | • |   |   |   |  |   |  |  |  |  |
| DIN 51506 VDL    |   | • | • |   |  | ✓ |  |  |  |  |
| DIN 51515-1 L-TD | • |   |   | • |  |   |  |  |  |  |
| DIN 51517-2 CL   | • |   |   |   |  |   |  |  |  |  |
| DIN 51524-1 HL   | • |   |   |   |  |   |  |  |  |  |
| ISO 21469        |   |   |   |   |  | • |  |  |  |  |
| ISO 6743-3 DAA   |   | • | • |   |  |   |  |  |  |  |
| ISO 6743-3 DAB   |   | • | • |   |  |   |  |  |  |  |
| ISO 6743-3 DAG   |   | • | • |   |  |   |  |  |  |  |
| ISO 6743-3 DAH   |   | • | • |   |  |   |  |  |  |  |
| ISO 6743-3 DAJ   |   |   | • |   |  |   |  |  |  |  |
| ISO 6743-3 DVA   |   | • | • |   |  |   |  |  |  |  |
| ISO 6743-4 HL    | • |   |   |   |  |   |  |  |  |  |
| ISO 6743-4 L-HV  |   |   | • |   |  |   |  |  |  |  |

## Aceites compresores

### Lubricantes compresores frigoríficos

|                   |                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q8 Stravinsky     | Mezcla de polialfaolefinas y alquilbenceno (PAO + AB)<br>Bueno en sistemas tradicionales y CFC<br>NO usar en sistemas de HFC                                                                                                                             |
| Q8 Stravinsky N   | Aceites base nafténicos (M)<br>Bueno en sistemas de HCFC y CFC<br>NO usar en sistemas de HFC                                                                                                                                                             |
| Q8 Stravinsky AB  | Alquilbenceno (AB)<br>Bueno en sistemas de HCFC, CFC y sistemas tradicionales<br>NO usar en sistemas de HFC                                                                                                                                              |
| Q8 Stravinsky POE | Polioléster sintético (POE)<br>Bueno en sistemas de HFC<br>NO usar en sistemas tradicionales                                                                                                                                                             |
| Q8 Sinan          | Polialquilenglicol sintético (PAG)<br>Hidrocarburos gaseosos como metano, etano, propano y butano<br>Hidrocarburos gaseosos industriales como etileno, propileno y butileno<br>Gases químicos industriales como cloruro de vinilo, butadieno y amoníaco. |

### Gases usados en sistemas de refrigeración

|                            |                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CFC                        | Cloro-Fluoro-Carbono : prohibido desde 1990<br>R11, R12, R13, R13b1, R113, R114, R502<br>Dañan la capa de ozono<br>Recomendación: Q8 Stravinsky N o Q8 Stravinsky o Q8 Stravinsky AB                      |
| HCFC                       | Hidro-Cloro-Fluoro-Carbono : prohibido desde 2003<br>R21, R22, R123, R124, R141b, R142b, R409a<br>Ligeramente dañinos para la capa de ozono<br>Recomendación: Q8 Stravinsky N o Q8 Stravinsky AB          |
| HFC                        | Hidro-Fluoro-Carbono<br>R23, R32, R125, R134/R134a, R152a, R143/R143a, R404a, R407c, R410a/R410b, R417a, R422a/R422d, R427a, R507/R507a<br>No dañan la capa de ozono<br>Recomendación: Q8 Stravinsky POE  |
| Inorgánico (tradicionales) | Amoníaco (NH <sub>3</sub> )<br>R717<br>Bueno para el medio ambiente, aunque muy tóxico<br>Recomendación: Q8 Stravinsky                                                                                    |
| Mezclas (ejemplos)         | R404a = R125 + R143 + R134<br>R407c = R32 + R125 + R134a<br>R408a = R125 + R143a + R22<br>R409a = R22 + R124 + R142b<br>R410a = R32 + R125<br>R500 = R12 + R152a<br>R501 = R22 + R12<br>R502 = R22 + R115 |

### Combinaciones de refrigerante/lubricante

|                          | Amoníaco (NH) | R22 | R134a | R404a | R407c | R410a | R507 | CO <sub>2</sub> |
|--------------------------|---------------|-----|-------|-------|-------|-------|------|-----------------|
| Aceite Mineral (M)       | ☑             | ☑   | ✗     | ✗     | ✗     | ✗     | ✗    | ✗               |
| Polialfaolefina (PAO)    | ✓             | ✗   | ✗     | ✗     | ✗     | ✗     | ✗    | ✓               |
| Alquilbenceno (AB)       | ☑             | ☑   | ✗     | ✗     | ✗     | ✗     | ✗    | ✗               |
| Polialquilenglicol (PAG) | ✓             | ✗   | ✗     | ✗     | ✗     | ✗     | ✗    | ✓               |
| Ésteres                  | ✗             | ☑   | ✓     | ✓     | ✓     | ✓     | ✓    | ✓               |
| M + AB                   | ☑             | ☑   | ✗     | ✗     | ✗     | ✗     | ✗    | ✗               |
| PAO + AB                 | ☑             | ✗   | ✗     | ✗     | ✗     | ✗     | ✗    | ✗               |

#### Leyenda

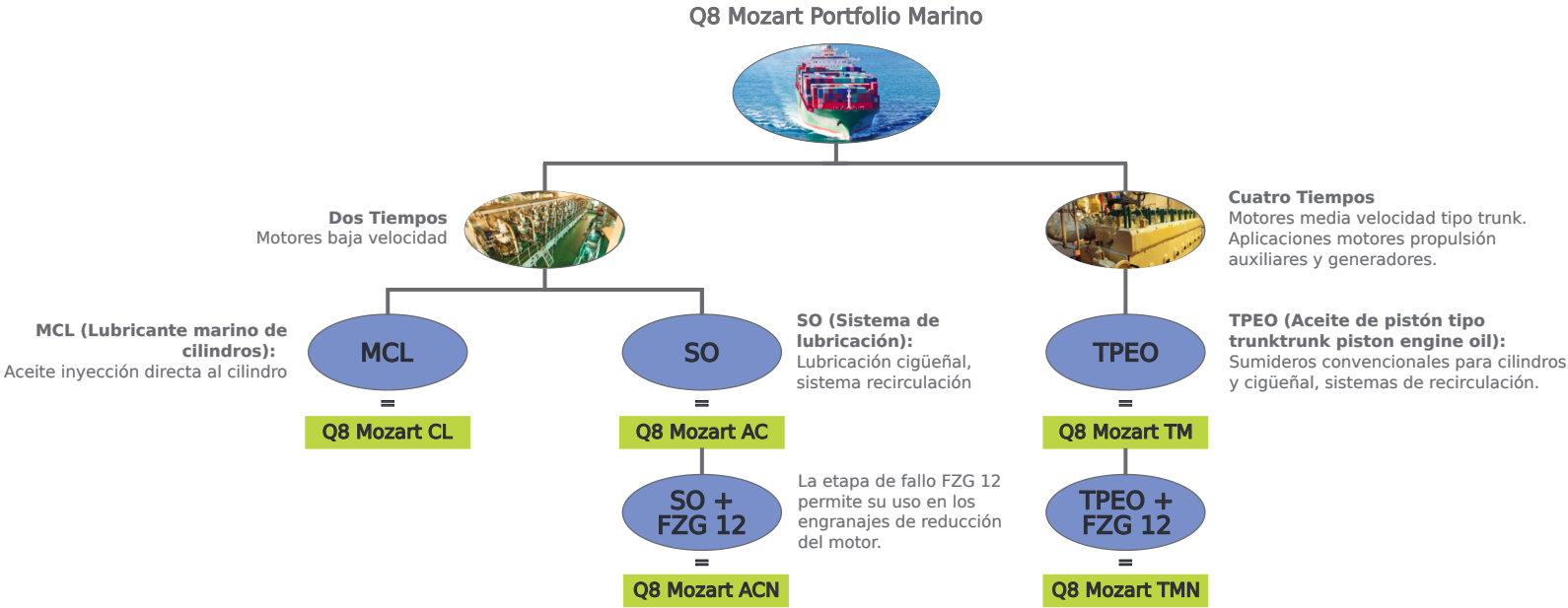
- ☑ Adecuado para juntas CR
- ✓ Adecuado para juntas HNBR
- ✗ No adecuado

Gama de productos

| TPEO                                                       | TPEO + FZG 12                                                | SO                               | SO + FZG 12                       | MCL                               |
|------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| Q8 Mozart TM 12 SAE 30<br>Q8 Mozart TM 12 SAE 40<br>TBN 12 | Q8 Mozart TMN 12 SAE 30<br>Q8 Mozart TMN 12 SAE 40<br>TBN 12 | Q8 Mozart AC 30<br>TBN 6, SAE 30 | Q8 Mozart ACN 30<br>TBN 6, SAE 30 | Q8 Mozart CL 20<br>TBN 20, SAE 50 |
| Q8 Mozart TM 15 SAE 30<br>Q8 Mozart TM 15 SAE 40<br>TBN 15 | Q8 Mozart TMN 15 SAE 30<br>Q8 Mozart TMN 15 SAE 40<br>TBN 15 | Q8 Mozart AC 40<br>TBN 6, SAE 40 | Q8 Mozart ACN 40<br>TBN 6, SAE 40 | Q8 Mozart CL 40<br>TBN 40, SAE 50 |
| Q8 Mozart TM 20 SAE 30<br>Q8 Mozart TM 20 SAE 40<br>TBN 20 |                                                              |                                  |                                   | Q8 Mozart CL 70<br>TBN 70, SAE 50 |
| Q8 Mozart TM 30 SAE 30<br>Q8 Mozart TM 30 SAE 40<br>TBN 30 |                                                              |                                  |                                   |                                   |
| Q8 Mozart TM 40 SAE 30<br>Q8 Mozart TM 40 SAE 40<br>TBN 40 |                                                              |                                  |                                   |                                   |
| Q8 Mozart TM 50 SAE 40<br>TBN 50                           |                                                              |                                  |                                   |                                   |
| Q8 Mozart TM 55 SAE 40<br>TBN 55                           |                                                              |                                  |                                   |                                   |

Verde: disponible en lista de precios

Negro: Por favor solicitar precios



## Gama de productos

|                                                              |           |                    | Q8 Transformer Oil U<br>Sin aditivos | Q8 Transformer Oil I<br>Aditivos |
|--------------------------------------------------------------|-----------|--------------------|--------------------------------------|----------------------------------|
| ESPECIFICACIÓN                                               |           |                    | IEC 60296                            | IEC 60296                        |
| <b> AISLAMIENTO ELECTRICO </b>                               |           |                    |                                      |                                  |
| Factor de disipación dieléctrica (DDF) a 90°C                |           |                    | <0.001                               | <0.001                           |
| Tensión de la brecha                                         | ISO 6295  | mN/m               | 47                                   | 50                               |
| Tensión de ruptura, antes del tratamiento                    | IEC 60156 | kV                 | 45                                   | 47                               |
| Tensión de ruptura, después del tratamiento                  | IEC 60156 | kV                 | 72                                   | 73                               |
| <b>VIDA DEL ACEITE</b>                                       |           |                    |                                      |                                  |
| Estabilidad a la oxidación a 120°C (164 horas), acidez total | IEC 61125 | mg KOH/g           | 0.7                                  | 0.01                             |
| Estabilidad a la oxidación a 120°C (164 horas), lodos        | IEC 61125 | % masa             | 0.2                                  | 0.01                             |
| Estabilidad a la oxidación a 120°C (164 horas), DDF a 90°C   | IEC 61125 |                    | 0.037                                | 0.013                            |
| Inhibidores (antioxidantes)                                  | IEC 60666 | % masa             | No detectable                        | No detectable                    |
| <b>REFRIGERACIÓN</b>                                         |           |                    |                                      |                                  |
| Viscosidad cinemática, 40°C                                  | ISO 3104  | mm <sup>2</sup> /s | 9.5                                  | 9.5                              |
| Viscosidad cinemática, -30°C                                 | ISO 3104  | mm <sup>2</sup> /s | 1030                                 | 1025                             |
| Punto de fluidez                                             | ISO 3016  | °C                 | -61                                  | -63                              |
| <b>COMPATIBILIDAD DE MATERIALES</b>                          |           |                    |                                      |                                  |
| Acidez                                                       | IEC 62021 | mg KOH/g           | <0.01                                | <0.01                            |
| Azufre cáustico                                              | DIN 51353 |                    | No corrosivo                         | No corrosivo                     |
| Azufre cáustico                                              | D 1275    |                    | No corrosivo                         | No corrosivo                     |
| Azufre cáustico                                              | IEC 62535 |                    | No corrosivo                         | No corrosivo                     |
| Azufre                                                       | ISO 14596 | % masa             | <0.01                                | <0.01                            |
| DBDS                                                         | IEC 62697 | mg/kg              | No detectable, 0                     | No detectable, 0                 |

# Fluidos para Mecanizado



## Gama básica de aceites solubles

| Producto | PH @5% en 40m | % fluido base | Refractometer factor | Mecanizado general | Rectificado | Tubos |
|----------|---------------|---------------|----------------------|--------------------|-------------|-------|
|----------|---------------|---------------|----------------------|--------------------|-------------|-------|

### BASE SINTÉTICA

|                  |     |    |     |   |   |   |
|------------------|-----|----|-----|---|---|---|
| Q8 Brunel XF 753 | 9.5 | 34 | 1.2 | ✓ | ✓ |   |
| Q8 Brunel XF 741 | 9.6 | 10 | 1.7 | ✓ | ✓ |   |
| Q8 Brunel XF 732 | 9.7 | 20 | 1.7 | ✓ | ✓ |   |
| Q8 Brunel XF 711 | 9.6 | 8  | 2.4 | ✓ | ✓ | ✓ |

### A BASE DE ACEITE MINERAL

|                  |     |    |     |   |   |  |
|------------------|-----|----|-----|---|---|--|
| Q8 Brunel XF 132 | 9.4 | 18 | 1.8 | ✓ | ✓ |  |
| Q8 Brunel XF 263 | 9.5 | 25 | 1.2 | ✓ | ✓ |  |
| Q8 Brunel XF 277 | 8.6 | 54 | 1   | ✓ |   |  |
| Q8 Brunel XF 322 | 9.4 | 25 | 1.5 | ✓ |   |  |
| Q8 Brunel XF 343 | 9   | 25 | 1.2 | ✓ |   |  |
| Q8 Brunel XF 355 | 9.4 | 40 | 1.1 | ✓ | ✓ |  |

### TOTALMENTE SINTÉTICO

|                  |     |   |     |   |   |  |
|------------------|-----|---|-----|---|---|--|
| Q8 Brunel XF 662 | 8.5 | 0 | 1.3 | ✓ | ✓ |  |
|------------------|-----|---|-----|---|---|--|

### MOLIENDA / TOTALMENTE SINTÉTICO

|                  |     |   |     |   |   |  |
|------------------|-----|---|-----|---|---|--|
| Q8 Brunel XF 530 | 9.6 | 0 | 1.6 | ✓ | ✓ |  |
| Q8 Brunel XF 527 | 9   | 0 | 1.4 |   | ✓ |  |
| Q8 Brunel XF 512 | 9.5 | 0 | 2   |   | ✓ |  |

| Aleaciones Cobre | Hierro Fundido | Acero | Acero Inoxidable | Aluminio | aluminio del automóvil | aluminio aeroespacial | Titanio | Inconel |
|------------------|----------------|-------|------------------|----------|------------------------|-----------------------|---------|---------|
|------------------|----------------|-------|------------------|----------|------------------------|-----------------------|---------|---------|

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| ! | ! | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ! | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ! | ! |
| ! | ✓ | ✓ | ✓ | ! | × | × | × | × |
| ! | ✓ | ✓ | ! | × | × | × | × | × |

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| ! | ✓ | ✓ | ✓ | ! | × | × | × | × |
| × | ! | ✓ | ✓ | ✓ | ✓ | ! | ✓ | ✓ |
| ✓ | × | × | × | ✓ | ! | ! | ! | × |
| ! | ! | ✓ | ! | ✓ | ✓ | ✓ | ! | ! |
| ✓ | ! | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ! | ! |

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| ! | ! | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|---|---|---|---|---|---|---|---|---|

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| ! | ✓ | ✓ | ✓ | × | × | × | ✓ | ✓ |
| ! | ✓ | ✓ | ✓ | ! | ! | ! | ✓ | ✓ |
| × | ✓ | ✓ | ✓ | × | × | × | × | × |



Recomendado



Contactar lubricantes@Q8Oils.com



No aplica

Aluminio, para reinas Aluminio y para nicht spezialisierte Bearbeitung

Automoción de aluminio, para las aleaciones con alto contenido de silicio producidas mediante un proceso de fundición a presión, que normalmente se utiliza en ruedas de automóviles y carrocerías de motores. Estas aleaciones son menos susceptibles a la corrosión, pero requieren productos con alto contenido de aceite.

El aluminio aeroespacial, que incluye 2000 y 7000, es mucho más susceptible a la corrosión.

La aleación de aluminio 6000 es común tanto para la automoción como para la industria aeroespacial.

Para mayor información sobre procedimientos de limpieza ver Guía de Uso Fluidos de Mecanizado (Disponible en [www.Q8Oils.com](http://www.Q8Oils.com))

Gama de productos de aceites puros

| Producto | Mecanizado General | Taladrado Profundo | Brochado | Gear Shaping/Cutting | Bruñido | Roscado por Laminación | Rectificado |
|----------|--------------------|--------------------|----------|----------------------|---------|------------------------|-------------|
|----------|--------------------|--------------------|----------|----------------------|---------|------------------------|-------------|

| Hierro Fundido | Acero al Carbono | Aleaciones de Acero | Acero Inoxidable / Aleaciones de Niquel | Aluminio | Cobre / Aleaciones de Cobre |
|----------------|------------------|---------------------|-----------------------------------------|----------|-----------------------------|
|----------------|------------------|---------------------|-----------------------------------------|----------|-----------------------------|

| Lubricidad | Activación EP - Azufre | Cloro |
|------------|------------------------|-------|
|------------|------------------------|-------|

| Apariencia | Olor | Viscosidad | Densidad (15°C) | Punto de inflamación | Carga de Soldadura<br />>de 4 bolas (kg) | Corrosión de Cobre |
|------------|------|------------|-----------------|----------------------|------------------------------------------|--------------------|
|------------|------|------------|-----------------|----------------------|------------------------------------------|--------------------|

| ACEITES DE AZUFRE NO ACTIVOS A BASE DE ACEITES MINERALES |   |   |   |   |   |   |   |
|----------------------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach XNL 22                                           | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ! |
| Q8 Bach XNF 6                                            | ✓ | ✗ | ✗ | ✗ | ✓ | ✗ | ✓ |
| Q8 Bach XNF 10                                           | ✓ | ! | ✗ | ✗ | ✗ | ✗ | ✓ |
| Q8 Bach XNF 15                                           | ✓ | ! | ! | ✗ | ✗ | ! | ✗ |
| Q8 Bach XNF 28                                           | ✓ | ✗ | ! | ! | ✗ | ! | ✗ |
| Q8 Bach XNF 36                                           | ✓ | ✗ | ! | ! | ✗ | ! | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

|    |            |       |
|----|------------|-------|
| ✓  | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |

|                |      |    |      |     |     |   |
|----------------|------|----|------|-----|-----|---|
| Amarillo claro | Baja | 22 | 0.86 | 205 | 140 | 1 |
| Amarillo claro | Baja | 6  | 0.83 | 130 | 500 | 1 |
| Amarillo claro | Baja | 10 | 0.85 | 130 | 500 | 1 |
| Amarillo claro | Baja | 15 | 0.86 | 185 | 520 | 1 |
| Amarillo claro | Baja | 28 | 0.87 | 195 | 520 | 1 |
| Amarillo claro | Baja | 36 | 0.88 | 200 | 520 | 1 |

| ACEITES DE AZUFRE ACTIVOS A BASE DE ACEITES MINERALES |   |   |   |   |   |   |   |
|-------------------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach XAF 15                                        | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| Q8 Bach XAF 22                                        | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| Q8 Bach XAS 42                                        | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |

|    |        |       |
|----|--------|-------|
| ✓✓ | Active | Libre |
| ✓✓ | Active | Libre |
| ✓✓ | Active | Libre |

|       |      |    |      |     |      |   |
|-------|------|----|------|-----|------|---|
| Ámbar | Leve | 15 | 0.86 | 190 | 520  | 4 |
| Ámbar | Leve | 23 | 0.87 | 210 | 520  | 4 |
| Ámbar | Leve | 41 | 0.87 | 195 | >800 | 4 |

| ACEITES DE AZUFRE INACTIVOS DE BASE SINTÉTICA |   |   |   |   |   |   |   |
|-----------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach 7006                                  | ! | ✗ | ✗ | ✗ | ✓ | ✗ | ✓ |
| Q8 Bach 7012                                  | ✓ | ! | ✗ | ✗ | ✗ | ✗ | ✓ |
| Q8 Bach 7022                                  | ✓ | ! | ! | ! | ✗ | ! | ✗ |
| Q8 Bach 7032                                  | ✓ | ✗ | ! | ! | ✗ | ! | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

|    |            |       |
|----|------------|-------|
| ✓  | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |

|                |      |    |      |     |     |   |
|----------------|------|----|------|-----|-----|---|
| Amarillo claro | Baja | 6  | 0.80 | 170 | 200 | 1 |
| Amarillo claro | Baja | 12 | 0.82 | 195 | 660 | 1 |
| Amarillo claro | Baja | 22 | 0.82 | 230 | 580 | 1 |
| Amarillo claro | Baja | 34 | 0.93 | 200 | 520 | 1 |

| ACEITES DE AZUFRE ACTIVOS DE BASE SINTÉTICA |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach 7510                                | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Q8 Bach 7515                                | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| Q8 Bach 7520                                | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| Q8 Bach 7530                                | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |
| ✓ | ✓ | ✓ | ✓ | ! | ✗ | ✗ | ✗ |

|    |        |       |
|----|--------|-------|
| ✓✓ | Active | Libre |
| ✓✓ | Active | Libre |
| ✓✓ | Active | Libre |
| ✓✓ | Active | Libre |

|       |      |    |      |     |      |   |
|-------|------|----|------|-----|------|---|
| Ámbar | Leve | 9  | 0.83 | 175 | >800 | 4 |
| Ámbar | Leve | 16 | 0.84 | 195 | >800 | 4 |
| Ámbar | Leve | 23 | 0.94 | 200 | >800 | 4 |
| Ámbar | Leve | 33 | 0.84 | 200 | >800 | 4 |

| ACEITES DE AZUFRE INACTIVOS A BASE DE ÉSTER |   |   |   |   |   |   |   |
|---------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach XNRG 6                              | ✓ | ✗ | ✗ | ✗ | ✓ | ✗ | ✓ |
| Q8 Bach XNRG 12                             | ✓ | ! | ✗ | ✗ | ✗ | ✗ | ✓ |
| Q8 Bach XNRG 15                             | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| Q8 Bach XNRG 25                             | ✓ | ✗ | ! | ! | ✗ | ! | ✗ |
| Q8 Bach XNRG 32                             | ✓ | ✗ | ! | ! | ✗ | ! | ✗ |
| Q8 Bach XNRG 44                             | ✓ | ✗ | ✗ | ! | ✗ | ! | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

|    |            |       |
|----|------------|-------|
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |
| ✓✓ | Non Active | Libre |

|                |      |    |      |     |      |   |
|----------------|------|----|------|-----|------|---|
| Amarillo claro | Baja | 6  | 0.87 | 190 | 420  | 1 |
| Amarillo claro | Baja | 12 | 0.88 | 200 | 340  | 1 |
| Amarillo claro | Baja | 15 | 0.87 | 220 | >800 | 1 |
| Amarillo claro | Baja | 23 | 0.93 | 205 | 440  | 1 |
| Amarillo claro | Baja | 32 | 0.91 | 240 | 380  | 1 |
| Amarillo claro | Baja | 44 | 0.92 | 300 | 260  | 1 |

| LUBRICACIÓN DE CANTIDAD MÍNIMA (SINTÉTICO VEGETAL) |   |   |   |   |   |   |   |
|----------------------------------------------------|---|---|---|---|---|---|---|
| Q8 Bach MQL 20                                     | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|---|---|---|---|---|---|---|---|

|    |            |       |
|----|------------|-------|
| ✓✓ | Non Active | Libre |
|----|------------|-------|

|                |      |      |      |     |     |   |
|----------------|------|------|------|-----|-----|---|
| Amarillo claro | Baja | 18.5 | 0.84 | 165 | 140 | 1 |
|----------------|------|------|------|-----|-----|---|

✓ Recomendado      ! Contactar lubricantes@Q8Oils.com      ✗ No aplica

Para mayor información sobre procedimientos de limpieza ver Guía de Uso Fluidos de Mecanizado (Disponibile en [www.Q8Oils.com](http://www.Q8Oils.com))

## Productos Complementarios

|                    |                                  | Componente                          |                                            |                                                                        |                                   |                                              |                                                                     |                  |
|--------------------|----------------------------------|-------------------------------------|--------------------------------------------|------------------------------------------------------------------------|-----------------------------------|----------------------------------------------|---------------------------------------------------------------------|------------------|
|                    |                                  | Sistemas Hidráulicos                | Guías                                      | Cabezales de Giro                                                      | Sistemas Neumáticos               | Reductores                                   | Rodamientos                                                         | Motor eléctrico  |
| Tipo de lubricante | Fluidos hidráulicos              | Q8 Haydn<br>Q8 Holst<br>Q8 Hogarth  |                                            |                                                                        |                                   | <sup>2</sup> Q8 Haydn                        | Q8 Haydn<br>Q8 Holst                                                |                  |
|                    | Fluidos para Mecanizado          | <sup>1</sup> Q8 Bach XNF<br>28 & 36 |                                            |                                                                        |                                   |                                              |                                                                     |                  |
|                    | Aceites de Guías                 | <sup>3</sup> Q8 Wagner NS<br>32/68  | <sup>3</sup> Q8 Wagner NS<br>32/68/150/220 |                                                                        |                                   | <sup>3</sup> Q8 Wagner NS<br>32/68           | <sup>3</sup> Q8 Wagner NS<br>32/68                                  |                  |
|                    | Aceites para Cabezales           | Q8 Dynobear<br>32/68                | Q8 Dynobear<br>32/68                       | Q8 Dynobear<br>3/5/10/32/68                                            |                                   |                                              |                                                                     |                  |
|                    | Aceites para Sistemas Neumáticos |                                     |                                            |                                                                        | Q8 Chopin 32/46                   |                                              |                                                                     |                  |
|                    | Aceites compresores              |                                     |                                            |                                                                        | Q8 Schubert 46<br>Q8 Scarlatti 46 |                                              |                                                                     |                  |
|                    | Aceites reductores               |                                     |                                            |                                                                        |                                   | Q8 Goya<br>150/220<br>Q8 El Greco<br>150/220 | Q8 Goya<br>150/220<br>Q8 El Greco<br>150/220                        |                  |
|                    | Grasas                           |                                     |                                            | <sup>4</sup> Q8 Rubens EM 2/3<br><sup>4</sup> Q8 Rembrandt<br>EP 00 WV |                                   |                                              | Q8 Multi LCX 1/2<br>Q8 Rodin EP 202/415<br>Q8 Rubens PMS<br>222/462 | Q8 Rubens EM 2/3 |

### Leyenda

- <sup>1</sup> clasificado DIN 51524/2 HLP & pasa FZG/seal test
- <sup>2</sup> Solo para reductores ligeramente cargados
- <sup>3</sup> clasificado DIN 51524/2 HLP & DIN 51517/3 CLP
- <sup>4</sup> Solo si los cabezales son lubricados con grasa

# Productos de anticorrosión y de servicio

## Anticorrosión

| Producto          | Característica           | Protección | Tipo           | Tipo de capa protectora | Tiempo de protección en el interior (meses) | Tiempo de protección en el exterior (meses) | Cin. Viscosidad 40°C (mm/s) | Punto de inflamación COC (°C) | Tiempo de secado@ temperatura ambiente (min.) |
|-------------------|--------------------------|------------|----------------|-------------------------|---------------------------------------------|---------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|
| Q8 Ravel TX 630   | Desplazamiento del agua  | Medio      | Aceite Mineral | Aceitoso                | 6 - 8                                       | X                                           | 23                          | 190                           | n.a.                                          |
| Q8 Ravel DTX 1203 | Desplazamiento del agua  | Medio      | Disolvente     | Aceitoso                | 8 - 12                                      | Up to 6                                     | 2.5                         | 84                            | 60 - 90                                       |
| Q8 Ravel WX 1202  | Protección a largo plazo | Largo      | Disolvente     | Cera                    | 12 - 18                                     | Up to 12                                    | 2.1                         | 84                            | 60 - 90                                       |

## Productos de servicio para sistemas fluidos para Mecanizado - Solubles

| Producto         | Descripción                                                                       |
|------------------|-----------------------------------------------------------------------------------|
| Q8 Antifoam EX   | Aditivo antiespumante para sistemas de emulsión de base de agua                   |
| Q8 Bioclean Plus | Limpiador de sistemas para tanques y equipos que utilizan líquidos a base de agua |
| Q8 Solguard pH   | Aditivo para aumentar el pH de los fluidos metalúrgicos solubles en agua          |

**!!! Por favor, utilice siempre la última versión de las tablas !!!**

#### NOTAS

*Las versiones previas de este documento se declaran obsoletas. La información contenida en este documento está sujeta a cambios sin previo aviso y no obliga a Q8Oils. Este documento contiene información confidencial que debe tratarse como tal. No debe copiarse o distribuirse (en todo o en parte) sin el consentimiento de Q8Oils.*

Aprobaciones y recomendaciones (1 / 5)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☑

Aprobación
- ☑\*

Aprobación pendiente
- ✓

Recomendación

|                     | Q8 Terra 1000 STOU 10W-30 | Q8 Terra 1000 STOU 15W-40 | Q8 Terra 1000 STOU 10W-40 | Q8 Terra 2200 UTTO | Q8 Terra 2200 UTTO RC | Q8 Terra 2500 UTTO | Q8 Terra 3000 WB | Q8 Terra 4000 UTTO CVT LV 75W-80 | Q8 Terra 4000 UTTO CVT 75W-85 | Q8 Terra 4000 UTTO CVT 75W-90 | Q8 Terra 4400 CVT HF 75W-85 |
|---------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|--------------------|------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| STOU                | ✓                         | ✓                         | ✓                         |                    | ✓                     | ✓                  | ✓                | ✓                                | ✓                             | ✓                             | ✓                           |
| UTTO                |                           |                           |                           | ✓                  | ✓                     | ✓                  | ✓                | ✓                                | ✓                             | ✓                             | ✓                           |
| Hidráulico (ISO VG) | 68                        | 100                       | 100                       | 46-68              | 46-68                 | 46                 | 68-100           | 46-68                            | 68                            | 100                           | 68                          |
| Transmisión (SAE)   | 75W-85                    | 80W-90                    | 75W-90                    | 75W-80             | 75W-80                | 70W-80             | 80W-80           | 75W-80                           | 75W-85                        | 80W-90                        | 75W-85                      |
| Motor (SAE)         | 10W-30                    | 15W-40                    | 10W-40                    | 10W-30(*)          | 10W-30(*)             | 10W-20(*)          | 15W-30(*)        | 10W-30(*)                        | 10W-30(*)                     | 15W-40(*)                     | 10W-30(*)                   |
| Frenos húmedos      | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  | ✓                | ✓                                | ✓                             | ✓                             | ✓                           |
| Hidráulico          | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  | ✓                | ✓                                | ✓                             | ✓                             | ✓                           |
| Transmisión         | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  | ✓                | ✓                                | ✓                             | ✓                             | ✓                           |
| Motor               | ✓                         | ✓                         | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |

(\*)Solo para comparar.No utilizar lubricantes UTTO como aceite de motor!

|                                                                     |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| ACEA E3                                                             |   | ✓ | ● |   |   |   |   |   |   |   |   |
| ACEA E7 nivel de control de hollín, desgaste y limpieza de pistones | ✓ | ✓ | ✓ |   |   |   |   |   |   |   |   |
| AGCO CVT ML 200                                                     |   | ✓ | ✓ |   |   |   |   | ✓ | ✓ | ✓ |   |
| Allison C-2                                                         |   |   |   |   |   | ✓ |   |   |   |   |   |
| Allison C-3                                                         |   |   | ✓ |   |   | ✓ | ✓ |   |   |   |   |
| Allison C-4                                                         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |   |   |
| API CE                                                              |   | ● |   |   |   |   |   |   |   |   |   |
| API CF                                                              |   | ● |   |   |   |   |   |   |   |   |   |
| API CF-4                                                            | ● |   | ● |   |   |   |   |   |   |   |   |
| API CI-4 nivel de control de hollín                                 | ✓ | ✓ | ✓ |   |   |   |   |   |   |   |   |
| API GL-3                                                            |   | ● |   |   |   |   |   |   |   |   |   |
| API GL-4                                                            | ● | ● | ● | ● | ● | ● | ● | ✓ | ● | ● | ✓ |
| API SF                                                              | ● | ● | ● |   |   |   |   |   |   |   |   |
| Case MS 1118                                                        | ✓ |   | ✓ |   |   |   |   |   |   |   |   |
| Case MS 1206                                                        |   |   |   |   |   | ✓ |   |   |   |   |   |
| Case MS 1207                                                        | ✓ |   | ✓ |   | ✓ | ✓ | ✓ |   |   |   |   |
| Case MS 1207 / MS 1209                                              |   |   |   | ✓ |   |   |   | ✓ | ✓ |   |   |
| Case MS 1209                                                        | ✓ |   | ✓ |   | ✓ | ✓ | ✓ |   |   |   |   |
| Case MS 1210                                                        |   |   |   | ✓ | ✓ | ✓ |   | ✓ | ✓ |   |   |
| Case MS 1216 / MS 1230                                              |   |   |   | ✓ |   |   |   |   |   |   |   |

## Aprobaciones y recomendaciones (2 / 5)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                          | Q8 Terra 1000 STOU 10W-30 | Q8 Terra 1000 STOU 15W-40 | Q8 Terra 1000 STOU 10W-40 | Q8 Terra 2200 UTTO | Q8 Terra 2200 UTTO RC | Q8 Terra 2500 UTTO | Q8 Terra 3000 WB | Q8 Terra 4000 UTTO CVT LV 75W-80 | Q8 Terra 4000 UTTO CVT 75W-85 | Q8 Terra 4000 UTTO CVT 75W-90 | Q8 Terra 4400 CVT HF 75W-85 |
|------------------------------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|--------------------|------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| Case MS 1230                             |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| Case New Holland MAT 3505                |                           |                           |                           | ✓                  | ✓                     | ✓                  |                  | ✓                                | ✓                             | ✓                             |                             |
| Case New Holland MAT 3506                |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               | ✓                             |                             |
| Case New Holland MAT 3509                |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| Case New Holland MAT 3525                | ✓                         | ✓                         | ✓                         |                    | ✓                     | ✓                  |                  |                                  |                               | ✓                             |                             |
| Case New Holland MAT 3525 / MAT 3540     |                           |                           |                           | ✓                  |                       |                    |                  |                                  | ✓                             |                               |                             |
| Case New Holland MAT 3526                |                           | ✓                         |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Case New Holland MAT 3540                |                           |                           |                           |                    | ✓                     |                    |                  |                                  |                               | ✓                             |                             |
| Case New Holland MAT 3541 / MAT 3544     |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             |                               |                             |
| Case New Holland MAT 3552-A              |                           |                           |                           | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             |                               |                             |
| Case New Holland MAT 3552-A / MAT 3553-A |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             |                               |                             |
| Case UK/David Brown                      |                           |                           |                           |                    |                       |                    | ✓                |                                  |                               |                               |                             |
| Caterpillar SATO                         |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Caterpillar TDTO Cold Weather            |                           |                           |                           |                    |                       |                    |                  |                                  |                               |                               | ✓                           |
| Caterpillar TDTO-TMS Cold Weather        |                           |                           |                           |                    |                       |                    |                  |                                  |                               |                               | ✓                           |
| Caterpillar TO-2                         | ✓                         |                           | ✓                         | ✓                  | ✓                     | ✓                  | ✓                |                                  |                               |                               |                             |
| Claas AGRISHIFT XE                       |                           |                           |                           |                    |                       |                    |                  |                                  |                               |                               | ✓                           |
| Claas CVT                                |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Denison HF-0                             |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Denison HF-1                             |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Denison HF-2                             |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Deutz Allis AC Power Fluid 821 XL        |                           |                           |                           | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             |                               |                             |
| DIN 51524-3 HVLDP                        |                           |                           | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Fendt FWN 81001                          |                           |                           |                           |                    |                       |                    |                  | ✓                                |                               |                               |                             |
| Fendt Vario                              |                           |                           | ✓                         |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Fiat AF 87                               |                           |                           | ✓                         |                    |                       |                    | ✓                |                                  |                               |                               |                             |
| FNHA 2-C 200                             |                           |                           |                           |                    | ✓                     |                    |                  |                                  |                               |                               |                             |
| FNHA 2-C 201                             |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Ford M2C121-D                            |                           |                           | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Ford M2C121-E                            | ✓                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |

## Aprobaciones y recomendaciones (3 / 5)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                              | Q8 Terra 1000 STOU 10W-30 | Q8 Terra 1000 STOU 15W-40 | Q8 Terra 1000 STOU 10W-40 | Q8 Terra 2200 UTTO | Q8 Terra 2200 UTTO RC | Q8 Terra 2500 UTTO | Q8 Terra 3000 WB | Q8 Terra 4000 UTTO CVT LV 75W-80 | Q8 Terra 4000 UTTO CVT 75W-85 | Q8 Terra 4000 UTTO CVT 75W-90 | Q8 Terra 4400 CVT HF 75W-85 |
|----------------------------------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|--------------------|------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| Ford M2C134-D                                | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| Ford M2C159-B                                |                           | ✓                         | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Ford M2C159-C                                | ✓                         | ✓                         | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Ford M2C41-B                                 | ✓                         |                           | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Ford M2C48-C2                                |                           |                           |                           |                    | ✓                     |                    |                  |                                  |                               |                               |                             |
| Ford M2C86-B                                 |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Ford M2C86-C                                 |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| John Deere JDM 3000                          |                           |                           |                           |                    | ✓                     |                    |                  |                                  |                               |                               |                             |
| John Deere JDM J20A                          |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| John Deere JDM J20B                          |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| John Deere JDM J20C                          | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  |                  | ✓                                | ✓                             | ✓                             |                             |
| John Deere JDM J20D                          |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| John Deere JDM J27                           | ✓                         | ✓                         | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Komatsu Dresser B06-0001                     |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Komatsu Dresser B06-0002                     |                           |                           |                           | ✓                  | ✓                     | ✓                  | ✓                |                                  |                               |                               |                             |
| Komatsu KES 07.866                           |                           |                           |                           | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Kubota Super UDT                             |                           |                           |                           |                    | ✓                     | ✓                  |                  |                                  |                               |                               |                             |
| Kubota Super UDT2                            |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Kubota UDT                                   |                           |                           |                           |                    | ✓                     | ✓                  |                  |                                  |                               | ✓                             |                             |
| Kubota UDT / Super UDT / UDT-HD              |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             |                               |                             |
| Landini UTTO                                 |                           |                           |                           |                    |                       |                    | ✓                |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1110                   |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1127                   | ✓                         |                           | ✓                         |                    |                       |                    | ✓                |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1127-A                 |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1127-B                 |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1135                   | ✓                         | ✓                         |                           | ✓                  | ✓                     | ✓                  | ✓                | ✓                                | ✓                             |                               |                             |
| Massey Ferguson CMS M 1139                   | ✓                         | ✓                         | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1141                   | ✓                         |                           | ✓                         | ✓                  | ✓                     | ✓                  | ✓                |                                  |                               |                               |                             |
| Massey Ferguson CMS M 1141 / M 1143 / M 1145 |                           |                           |                           |                    |                       |                    |                  | ✓                                | ✓                             |                               |                             |
| Massey Ferguson CMS M 1143                   |                           | ✓                         |                           | ✓                  | ✓                     | ✓                  |                  |                                  |                               |                               |                             |

## Aprobaciones y recomendaciones (4 / 5)

### Leyenda

(dd. 04/04/2025)

- Especificación
- ☑ Aprobación
- ☑\* Aprobación pendiente
- ✓ Recomendación

|                                              | Q8 Terra 1000 STOU 10W-30 | Q8 Terra 1000 STOU 15W-40 | Q8 Terra 1000 STOU 10W-40 | Q8 Terra 2200 UTTO | Q8 Terra 2200 UTTO RC | Q8 Terra 2500 UTTO | Q8 Terra 3000 WB | Q8 Terra 4000 UTTO CVT LV 75W-80 | Q8 Terra 4000 UTTO CVT 75W-85 | Q8 Terra 4000 UTTO CVT 75W-90 | Q8 Terra 4400 CVT HF 75W-85 |
|----------------------------------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|--------------------|------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| Massey Ferguson CMS M 1144                   | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  |                  |                                  |                               | ✓                             |                             |
| Massey Ferguson CMS M 1145                   | ✓                         | ✓                         | ✓                         | ✓                  | ✓                     | ✓                  |                  |                                  |                               |                               |                             |
| MB 227.1                                     | ✓                         | ✓                         |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| MB 228.1 rendimiento del motor en SAE 10W-30 | ✓                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| MB 228.3 nivel de limpieza del pistón        | ✓                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| MIL L-2104D                                  | ●                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 024-C                         | ✓                         | ✓                         |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 030-C                         |                           | ✓                         |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 324-B                         | ✓                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 410-B                         | ✓                         | ✓                         | ✓                         |                    | ✓                     |                    |                  |                                  |                               | ✓                             |                             |
| New Holland NH 410-B / NH 410-C              |                           |                           |                           | ✓                  |                       |                    |                  | ✓                                | ✓                             |                               |                             |
| New Holland NH 410-C                         |                           |                           |                           |                    | ✓                     | ✓                  |                  |                                  |                               | ✓                             |                             |
| New Holland NH 420-A                         |                           | ✓                         |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 526-C                         |                           |                           | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| New Holland NH 540-B                         | ✓                         |                           |                           |                    |                       |                    |                  |                                  |                               |                               |                             |
| Renk Doromat 873                             |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Renk Doromat 874-A                           |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Renk Doromat 874-B                           |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| Same Deutz Fahr UTTO                         |                           |                           |                           |                    |                       |                    | ✓                |                                  | ✓                             | ✓                             |                             |
| Steyr 397 88001                              |                           |                           | ✓                         |                    |                       |                    |                  |                                  |                               |                               |                             |
| Valmet/Volvo BM UTTO                         |                           |                           |                           |                    |                       |                    | ✓                |                                  |                               |                               |                             |
| Valtra G2-08 (XT-60)                         |                           |                           |                           | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Valtra G2-B10 (XT-60+)                       |                           |                           |                           | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| Volvo 97302                                  |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| Volvo 97303 (WB 101)                         |                           |                           |                           | ✓                  | ☑                     |                    |                  |                                  |                               |                               |                             |
| Volvo 97304 (WB 102)                         |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |
| White New Idea Q-1802                        |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| White New Idea Q-1826                        |                           |                           |                           | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| ZF TE-ML 03E                                 |                           |                           |                           | ✓                  | ✓                     | ✓                  |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 03F                                 |                           |                           |                           |                    |                       | ✓                  |                  |                                  |                               |                               |                             |

Aprobaciones y recomendaciones (5 / 5)

Leyenda

- (dd. 04/04/2025)
- Especificación
- ☒

Aprobación
- ☒\*

Aprobación pendiente
- ✓

Recomendación

|              | Q8 Terra 1000 STOU 10W-30             | Q8 Terra 1000 STOU 15W-40 | Q8 Terra 1000 STOU 10W-40           | Q8 Terra 2200 UTTO | Q8 Terra 2200 UTTO RC | Q8 Terra 2500 UTTO | Q8 Terra 3000 WB | Q8 Terra 4000 UTTO CVT LV 75W-80 | Q8 Terra 4000 UTTO CVT 75W-85 | Q8 Terra 4000 UTTO CVT 75W-90 | Q8 Terra 4400 CVT HF 75W-85 |
|--------------|---------------------------------------|---------------------------|-------------------------------------|--------------------|-----------------------|--------------------|------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------------|
| ZF TE-ML 03L |                                       |                           |                                     | ✓                  | ✓                     |                    |                  |                                  |                               |                               |                             |
| ZF TE-ML 05F |                                       |                           |                                     | ✓                  | ✓                     | ✓                  |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06B | <input checked="" type="checkbox"/>   | ✓                         | <input checked="" type="checkbox"/> |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06C | ✓                                     | ✓                         |                                     |                    |                       |                    |                  |                                  |                               |                               |                             |
| ZF TE-ML 06D | <input checked="" type="checkbox"/> * |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06E |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06F |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06H |                                       |                           |                                     |                    |                       |                    |                  |                                  |                               |                               | ✓                           |
| ZF TE-ML 06K |                                       |                           |                                     | ✓                  | ✓                     | ✓                  |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06L |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06M |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06N | <input checked="" type="checkbox"/> * |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06P |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06R |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06S |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 06T |                                       |                           |                                     |                    |                       |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 07B | <input checked="" type="checkbox"/> * |                           | <input checked="" type="checkbox"/> |                    |                       |                    |                  |                                  |                               |                               |                             |
| ZF TE-ML 17E |                                       |                           |                                     | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             | ✓                             |                             |
| ZF TE-ML 21F |                                       |                           |                                     | ✓                  | ✓                     |                    |                  | ✓                                | ✓                             | ✓                             |                             |