

## Q8 Hartmann 46

Zinc-based hydraulic oil with outstanding stick-slip performance

### Description

Q8 Hartmann 46 is a zinc-based oil that has been developed to achieve an outstanding stick-slip performance. The oil guarantees limited friction and a smooth hydraulic operation. Q8 Hartmann 46 oil has an excellent oxidation stability which leads to a longer service life of the lubricant. It is fit for use in severe working conditions.

### Applications

Q8 Hartmann 46 is applied in industrial equipment in rough conditions where limited friction is needed such as big hydraulic cylinders or actuators.

### Benefits

- Improves the durability of the equipment thanks to its characteristics
- Prevents sticking
- Smooth operational properties
- Outstanding reduction of air entrainment
- Highly appropriate for applications under heavy conditions

### Specifications & Approvals

<b>Bosch Rexroth</b>	RE 90220 notes	<b>ISO</b>	11158 HM
<b>DIN</b>	51524-2 HLP	<b>Swedish Standard</b>	SS 155434 AM
<b>Eaton Brochure</b>	03-401-2010		

### Properties

	Method	Unit	Typical
ISO Viscosity Grade	-	-	46
Density, 15 °C	D 4052	g/ml	0,877
Colour	D 1500	-	1.0
Kinematic Viscosity, 40 °C	D 445	mm <sup>2</sup> /s	47
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /s	6.94
Viscosity Index	D 2270	-	103
Total Acid Number	D 974	mg KOH/g	0.6
Pour Point	D 97	°C	-36
Flash Point, COC	D 92	°C	223
Air Release, 50 °C	D 3427	min	3
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40-40-0 (15min)
Foam, 5 min blowing, seq. 1-2-3	D 892	ml	0/10/10
Foam, 10 min settling, seq. 1-2-3	D 892	ml	0/0/0
Oxidation Characteristics (TOST)	D 943	hrs	
Total Acid Number	D 664	mg KOH/g	0.2 after 1000h
Rust Test, Proc. A and B, 24 h	D 665	-	pass
Copper Strip, 3 h, 100 °C	D 130	-	1b
FZG Test, A/8.3/90	DIN 51354	load stage	12

The figures above are not a specification. They are typical figures obtained within production tolerances.

## Sustainability

*The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Q8 Hartmann 46 is **1.24** kg CO<sub>2</sub>eq / kg.*

*Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.  
For more info check here*



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