PRODUCT DATA SHEET

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

Bosch Rexroth	RE 90220 notes	**ISO**	11158 HM
DIN	51524-2 HLP	**Swedish Standard**	SS 155434 AM
Eaton Brochure	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*	*mm²/s*	*47*
Kinematic Viscosity, 100 ˚C	*D 445*	*mm²/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_2*eq / kg.*
Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.
To ensure accuracy and reliability, the PCF calculation tool has been verified by an independent third party. The verification report is available in the disclaimer.
For more info check here

we take care

PRODUCT CARBON FOOTPRINT
METHOD VALIDATED BY:

PCF CALCULATION IN LINE WITH:
ISO 14067 | ATIEL-UEIL PCF

VINÇOTTE