

Q8 Handel 46

Application

- Off highway equipment and other hydraulic systems exposed to wide temperature fluctuations

Specifications

- ISO 11158, category HV
- DIN 51524 Part 3, category HVLP
- SS 155434, category AV
- Eaton Brochure 03-401-2010

Benefits

- Optimum anti-wear performance, based on a zinc dialkylthiophosphate additive
- Wide application temperature range through low pour point and outstanding low and high temperature viscosity characteristics
- Trouble-free operation due to the unique combination of outstanding demulsibility, foam, air release, hydrolytic stability and filterability
- Long term stable fluid viscosity through excellent shear stability

References

- Q8 Handel meets the most severe off highway equipment manufacturer requirements and is approved by the major hydraulic pump manufacturers
- The zinc based additive package meets Denison HF-0, HF-1 and HF-2 requirements.

Properties	Method	Unit	Typical
ISO Viscosity Grade	-	-	46
Absolute Density, 15 °C	D 4052	kg/m ³	876
Colour	D 1500	-	L1.0
Kinematic Viscosity, 40 °C	D 445	mm ² /s	47.50
Kinematic Viscosity, 100 °C	D 445	mm ² /s	9.38
Viscosity Index	D 2270	-	185
Flash Point	D 92	°C	190
Pour Point	D 97	°C	-45
Total Acid Number	D 974	mg KOH/g	0.57
Copper Strip, 3 h, 100 °C	D 130	-	1a
Rust Test, Proc. A and B, 24 h	D 665	-	pass
Air Release, 50 °C	DIN 51381	min	3.3
Foam	D 892	-	
5 min blowing, seq. 1/2/3	-	ml	0/40/50
10 min settling, seq. 1/2/3	-	ml	0/0/0
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40-40-0(25 min)
Oxidation Stability	D 943	-	
Total Acid Number	-	mg KOH/g	0.1 after 1000h
Oxidation, Time to 2.0 TAN	-	h	5710
FZG Test, A/8,3/90 load stage	DIN 51354	load stage	12

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

