



HYDRAULIC OIL HM ZF 46

Product Description:

HYDRAULIC OIL HM ZF 46 is a premium quality zinc free mineral oil with a high viscosity index for use in high pressure hydraulic systems, light duty gearboxes, bearings, and general lubrication. The oil is not suitable for turbine applications.

HYDRAULIC OIL HM ZF 46 is formulated with high quality refined mineral base stocks in combination with a special additive technology to achieve the following performance:

- Good stability against oxidation.
- High Viscosity Index
- Very good protection against wear.
- Good water demulsibility.
- Very good foaming properties.
- Very effective to rust and corrosion.
- Good thermal stability.

HYDRAULIC OIL HM ZF 46 exceeds the following performance criteria.:

DIN 51524/2 HLP
Eaton Vickers M-2950-S
MAG P 70 **ASTM D6158**
Bosch Rexroth RE 90220

GM LS-2
Denison HF -1
SAE MS 1004

ISO 11158 HM
ISO 6743-4 HM



Property	Unit	Test Method	Typical Value
ISO grade		ISO 3448	46
Density @15°C	kg/m ³	ASTM D4052	876
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	46.8
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	6.9
Viscosity Index		ASTM D2270	101
Flash Point COC	°C	ASTM D92	>210
Pour Point	°C	ASTM D7346	-27
Demulsibility @54°C	min	ASTM D1401	10
FZA A/8.3/90, Load Stage Fail	min	DIN 51354-2	11

Product Nr: 43650
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