



HYDRAULIC OIL HV ZF 46

Product Description:

HYDRAULIC OIL HV ZF 46 is an universal Zinc free mineral oil with a High Viscosity Index (HVI) for the use in heavy duty hydraulic systems and light duty gearboxes, bearings and general lubrication. Not suitable for turbine application.

HYDRAULIC OIL HV ZF 46 is formulated with high quality refined mineral base stocks in combination with a special EP-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.
- Very good thermal stability.

HYDRAULIC OIL HV ZF 46 exceeds the following performance criteria:

DIN 51524/3 HVL
ASTM D6158-99
Eaton Vickers M-2950-S

GM LS-2
SAE MS1004
Eaton Vickers I-286-S

ISO 11158 HV
ISO 6743-4 HV
Bosch Rexroth RE 90 220



Property	Unit	Test Method	Typical Value
ISO Grade		ISO 3448	46
Density@15°C	kg/m ³	ASTM D4052	874
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	49
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	8.7
Viscosity Index		ASTM D2270	157
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-39
Demulsibility @54°C		ASTM D1401	10
FZA A/8.3/90, Load Stage Fail, min		DIN 51354-2	11

Product Nr: 43630
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