



Hydraulic Oil HV ZF 46

HVI Zinc Free mineral hydraulic fluid

Product Code: 76630

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:

- Excellent 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.
- Avoid reactions with metals like Silver.

Hydraulic Oil HV ZF 46 meets the following performance criteria:

DIN 51524/3 HVL P GM LS-2 ISO 11158 HV Eaton Vickers M-2950-S
Eaton Vickers I-286-S Denison HF-0 Cincinnati P-70 Bosch Rexroth RE 90 220

Typical Analysis

Properties	Unit	Method	Typical Value
ISO VG Grade		ISO 3448	46
Density @15°C	kg/m ³	ASTM D4052	878.2
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	47.2
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	8.4
Viscosity Index		ASTM D2270	157
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-36
FZG Fail Load Stage		DIN 51534-2	11
Air Release Value @50°C	Minutes	ASTM D3427	Pass
Demulsibility @54°C	Minutes	ASTM D1401	Pass

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