



## Hydraulic Oil HV ZF 46

Product Code: 76630

HVI Zinc Free mineral hydraulic fluid

**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 HVLP    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 <sup>3</sup>	ASTM D4052	863
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	45
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	8.4
Viscosity Index		ASTM D2270	168
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-42
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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