



# HYDRAULIC OIL

## HV 46

### Product Description:

**HYDRAULIC OIL HV 46** is an universal extreme HVI mineral high grade EP oil for use in heavy duty hydraulic systems and light duty gearboxes, bearings and general lubrication. Not suitable for turbine application.

**HYDRAULIC OIL HV 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.

**HYDRAULIC OIL HV 46** exceeds the following performance criteria:

**DIN 51524-3 HVLP**  
**AFNOR NF E 48-603 HV**  
**Eaton Vickers M-2950-S / I-286**

**ISO 11158 HV**  
**Cincinnati P-70**

**ASTM D6158 HV**  
**Sauer Danfoss 520L0463**



Property	Unit	Test Method	Typical Value
ISO Grade		ISO 3448	46
Density@15°C	kg/m <sup>3</sup>	ASTM D4052	873
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	48.5
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	8.8
Viscosity Index		ASTM D2270	164
Flash Point COC	°C	ASTM D92	>200
Pour Point	°C	ASTM D7346	-42
Air Release Value @50°C	Minutes	ASTM D3427	Pass
Demulsibility @54°C	Minutes	ASTM D1401	Pass
FZG Fail Load Stage		DIN 51354-2	10

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