

Hydraulic Oil ZF HVLPD 46

Zinc Free Mineral hydraulic fluid

Hydraulic Oil ZF HVLPD 46 is heavy duty detergent type ashless anti-wear zinc free high viscosity hydraulic oil specially developed for machine-tool hydraulic systems, mobile hydraulic systems and clutch drives where minor water contamination can be expected.

Product Code: 76680

Hydraulic Oil ZF HVLPD 46 is formulated with high quality mineral base oil in combination with a special additive package to ensure to following properties.

- Special detergent and dispersant properties ensure smooth functioning of hydraulic systems by minimizing formation of sticky residues and deposits.
- Excellent water emulsifying ability maintains proper functioning of hydraulic systems even in case of contamination of oil with small amounts of water .
- Superior anti-wear properties help reduce wear of mechanical components .
- High resistance to oxidation and thermal degradation controls the formation of sludge & varnish and improves oil life .
- Superior foam control and rapid air release properties ensure trouble-free operations.
- Effective corrosion inhibitors provide corrosion protection in arduous service conditions.
- Superior thermo- and oxidation stability.
- High Viscosity.

Hydraulic Oil ZF HVLPD 46 exceeds the following performance criteria:

DIN 51524/3 HVLPD ISO 6743/4-L-HV AFNOR NFE 48-603 Daimler DBL 6721

Typical Analysis

Properties	Unit	Method	Typical Value
ISO VG Grade		ISO 3448	46
Density @15°C	kg/m³	ASTM D4052	876.0
Kin. Viscosity @40°C	mm²/s	ASTM D7042	47.2
Kin. Viscosity @100°C	mm²/s	ASTM D7042	8.5
Viscosity Index		ASTM D2270	160
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-37
FZG Fail Load Stage		DIN 51354-2	12
Air Release Value @50°C	Minutes	ASTM D3427	Pass

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