



## Hydraulic Oil HLPD 46

Product Code: 76650

Mineral hydraulic fluid

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

**Hydraulic Oil HLPD 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.

**Hydraulic Oil HLPD 46** exceeds the following performance criteria:

DIN 51524/2 HLPD    DaimlerChrysler DBL 6721

### Typical Analysis

Properties	Unit	Method	Typical Value
ISO VG Grade		ISO 3448	46
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	876
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	48
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	7
Viscosity Index		ASTM D2270	102
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-30
FZG Fail Load Stage		DIN 51354-2	12
Air Release Value @50°C	Minutes	ASTM D3427	Pass

Date Issued: 17-03-2021	Supersedes: 12-10-2015	Revision Nr.: 02
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