



# HYDRAULIC OIL

## HLPD 46

### Product Description:

**HYDRAULIC OIL HLPD 46** is a superior quality so called “detergent” hydraulic oil blended from high quality base stocks with an ashless antiwear hydraulic oil package having water tolerance and detergency properties to meet the requirements of the HLPD classification for hydraulic oils formulated primarily as heavy duty, anti-wear hydraulic oil.

**HYDRAULIC OIL HLPD 46** specially suitable for use in a wide variety of applications where drain of water condensation is difficult.

**HYDRAULIC OIL HLPD 46** is formulated with high quality refined mineral base stocks in combination with a special ashless additive technology to achieve the following performance:

- Good stability against oxidation.
- Compatible with a wide variety of pump designs (vane type pumps, axial piston, gear and other types of hydraulic pumps and motors) at oil pressures in the range of 70 to 350 bar.
- Very good protection against wear.
- Good water absorbing properties (upto 2%)
- Very good foaming properties.
- Very effective to rust and corrosion.
- Good thermal stability.

**HYDRAULIC OIL HLPD 46** exceeds the following performance criteria.:

**MB DBL 6713**

**DIN 51524-2 HLPD**



Property	Unit	Test Method	Typical Value
ISO 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	46.7
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	6.9
Viscosity Index		ASTM D2270	102
Flash Point COC	°C	ASTM D92	>200
Pour Point	°C	ASTM D7346	-33
Air Release Value @50°C	Minutes	ASTM D3427	Pass

**Product Nr:** 43660

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