

## HYDRA POWER HLPD PLUS 46

### Hydraulic Oil

**HYDRA POWER HLPD PLUS 46** is a 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.

**HYDRA POWER HLPD PLUS 46** is based on high quality virgin mineral base oil in combination with an unique additive package to ensure the following properties:

- Special detergent and dispersant properties ensure smooth functioning.
- 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.
- High foam control and rapid air release properties ensure trouble-free operations .
- Effective corrosion inhibitors provide corrosion protection in arduous service conditions.

**HYDRA POWER HLPD PLUS 46** meets the following performance criteria:

DIN 51524/3 HVLPD ISO 6743/4-LHV

AFNOR NFE 48-603

Daimler 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	876.0
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	47.2
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	8.5
Viscosity Index		ASTM D2270	160
Flash Point COC, min	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-37
FZG Fail Load Stage, min		DIN 51354-2	12
Air Release Value @50°C	Minutes	DIN 51381	Pass
Demulsibility @54°C	Minutes	DIN 51599	Pass
Date Issued: 15-5-2025		Supersedes: 14-6-2021	Revision Nr.: 04

