Product information
Hydraulic Oil HLP 46

PI 44/09/25/2026



Description
High-performance hydraulic oil made from high-quality raffinates. Due to the high thermal stability of the base oils, the aging process is significantly reduced even at elevated temperatures. This decisively helps to reduce the formation of sludge, improve cleanliness, and promote the reliability of the hydraulic systems. Excellent oxidation resistance permits lengthy oil life (changing intervals). The outstanding wear protection technology is effective in both, low and high load conditions. Good corrosion protection behavior even if water is present. The hydraulic components are thus optimally protected in all operating conditions.

Properties
- excellent wear resistance
- high lubrication reliability
- highest thermal stability
- outstanding corrosion protection
- does not attack common sealing materials
- outstanding thermal stability

Specifications / Approvals
Hydrauliköl DIN 51524 Teil 2 HLP 46

Technical data

ISO viscosity class	VG 46 DIN 51519
Density at 15 °C	0,860 g/cm³ DIN 51757
Viscosity at 40 °C	46,0 mm²/s DIN 51562
Viscosity at 100 °C	6,75 mm²/s DIN 51562
Viscosity index	100 DIN ISO 2909
Pour point	-27 °C DIN ISO 3016
Flash point	230 °C DIN ISO 2592
Demulgation characteristics at 54 °C	<= 30 min DIN ISO 6614
Foaming behavior at 24 °C	30/0 ml ISO 6247
Foaming behavior at 93.5 °C	50/0 ml ISO 6247
Foaming behavior at 24 °C after 93.5 °C	30/0 ml ISO 6247
Air separation capacity	<= 10 min DIN ISO 9120

Technical data

Corrosion effect on steel	0-B DIN ISO 7120
Corrosion effect on copper	1-125 A3 DIN EN ISO 2160
Neutralization number	0,5 mg KOH/g DIN 51558 T1
Neutralization number after 1000 h	< 2 mg KOH/g DIN 51587
Oxide ash	0,16 g/100g DIN EN ISO 6245
Sulfate ash	0,17 g/100g DIN 51575
FZG gear rig test, standard test A/8, 3/90	Schadenskraftstufe >10, Spez.Gew.Änderung <0,27 mg/KWh DIN 51354
Color number (ASTM)	L1,5 DIN ISO 2049
Cleanliness level	19/17/14 ISO 4406

Areas of application
For stationary and mobile applications in hydraulic systems in construction, forestry and agricultural machinery such as excavators, tractors etc., hoists, industrial machinery and machine tools, wood splitters, lifting platforms and presses, etc. Thanks to its good compatibility with materials, this LIQUI MOLY hydraulic oil can be used in the most common pump systems in hydraulic systems. This hydraulic oil can also be used with all mineral-oil-compatible sealing materials and coatings.

Application
The specifications and instructions from the assembly or vehicle manufacturer must be followed. The optimal effectiveness is achieved only when used unmixed.

Available pack sizes

1 l Canister plastic	1117 DE

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20 l Canister plastic	1110 DE-EN-ES-IT-PT
60 l Black plate barrel	1111 DE-EN-ES-FR-IT-PT
205 l Black plate barrel	1112 DE-EN-ES-FR-IT-PT
1 l Bulk goods	1120 DE

Our information is based on thorough research and may be considered reliable, although not legally binding.

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