

## Hydraulic Oil HLP 46

### Description

High-performance hydraulic oil made from high-quality raffinates. Thanks to the high thermal stability of the base oils, the aging process is significantly reduced even at elevated temperatures. This decisively helps reduce the formation of sludge, improves cleanliness and promotes 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

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

### Specifications and approvals:

Hydrauliköl SEB 181 222 HLP 46 • Hydrauliköl DIN 51524 Teil 2 HLP 46

### Technical data

ISO VG	VG 46 DIN 51519
Density at 15 °C	0,860 g/cm <sup>3</sup> DIN 51757
Viscosity at 40 °C	46 mm <sup>2</sup> /s DIN 51562
Viscosity at 100 °C	6,75 mm <sup>2</sup> /s DIN 51562
Viscosity index	100 DIN ISO 2909
Pour point	-27 °C DIN ISO 3016
Flash point	232 °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



### Technical data

Air separation capacity	<= 10 min DIN ISO 9120
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 unit or vehicle manufacturer must be followed. Optimum effectiveness is only possible when the product is used unmixed.



## Hydraulic Oil HLP 46

### Available pack sizes

1 l Can plastic	1117
	D
20 l Canister plastic	1110
	D-GB-I-E-P
60 l Drum sheet metal	1111
	D-GB
205 l Drum sheet metal	1112
	D-GB
1 l Bulk goods	1120
	D-GB

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