

Hydraulic Oil HyPER MG1-46

Description

Ultra-high-performance hydraulic oil manufactured from group II base oils combined with a premium additive package. Contains modern agents for increasing resistance to aging, corrosion protection and the EP properties. Ensures significantly lower wear rates for hydraulic components as compared to standard HLP hydraulic oils. Has a much longer service life compared with a standard HLP hydraulic oil. Optimized elastomer compatibility results in fewer leaks and defective hydraulic hoses. Special shear-stable additives guarantee uniform viscosity and a rapid and exact response from the hydraulic system even under significant temperature fluctuations. The low change in viscosity over a wide temperature range enables high energy and fuel savings, particularly under fluctuating operating temperatures.

Properties

- outstanding cold-running properties
- excellent high-pressure and wear protection properties
- extremely stable to aging
- for extended oil-change intervals
- high energy and fuel savings thanks to high VI

Approvals

Hydrauliköl DIN 51524 Teil 3 HVLP 46 • ISO 11158 (HV)
• Parker Denison HF-0, HF-1, HF-2 • SAE MS 1004 (HV)

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required

AIST 126, 127 • Eaton E-FDGN-TB002-E • Fives-Cincinnati P-68, P-69, P-70 • GM LS-2 • JCMAS P041 HK Hydraulic specification

Technical data

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|---------------------|---|
| ISO viscosity class | 46 DIN 51519 |
| Density at 15 °C | 0,865 g/cm ³ ASTM D 7042-04 |
| Viscosity at 40 °C | 46 mm ² /s ASTM D 7042-04 |
| Viscosity at 100 °C | 8,7 mm ² /s DIN 51757 |
| Viscosity index | 171 DIN ISO 2909 |
| Pour point | -33 °C DIN ISO 3016 |
| Flash point | 220 °C DIN ISO 2592 |



Technical data

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| Demulgation characteristics at 54 °C | <= 20 min DIN ISO 6614 |
| Air separation capacity | 4 min DIN ISO 9120 |
| Foaming behavior at 24 °C | 50 ml ISO 6247 |
| Foaming behavior at 93.5 °C | 10 ml ISO 6247 |
| Foaming behavior at 24 °C after 93.5 °C | 50 ml ISO 6247 |
| Corrosion effect on steel | 0-A DIN ISO 7120 |
| Corrosion effect on copper | 1-100-A3 DIN EN ISO 2160 |
| Neutralization number | 1 mg KOH/g DIN 51558 T1 |
| Neutralization number after 1000 h | < 2 mg KOH/g DIN 51587 |
| Color number (ASTM) | L 0,5 DIN ISO 2049 |

Areas of application

For stationary and mobile use in hydraulic systems fitted in construction, forestry and agricultural machinery such as excavators, tractors, elevators, industrial machinery and machine tools, wood splitters, lifting platforms, presses, etc. The exceptionally high material compatibility allows it to be used in virtually all pumping systems fitted in hydraulic systems. Can also be used with all mineral-oil-compatible sealing materials and coatings. The premium additive package with increased protection against wear makes it superbly suitable for use in hydraulic systems made by well-known manufacturers such as Bosch Rexroth, Parker Hannifin, Eaton, Linde, Hydac, Danfoss and Poclain. High energy and fuel savings can be achieved, particularly under fluctuating operating temperatures.

Application

The specifications and instructions from the assembly or vehicle manufacturer must be followed! Optimum effectiveness is only possible when the product is used

Product information

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Hydraulic Oil HyPER MG1-46

unmixed.

Available pack sizes

20 l Canister plastic 20975
D-GB

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