

Product information

Hydraulic Oil HyPER MG1-46

PI 11/22/06/2018



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

Specifications and 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 • SEB 181222

Technical data

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



Technical data

Flash point	220 °C DIN ISO 2592
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	1,0 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.

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Application

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