

MOL Hydro HME 46

premium hydraulic oil



MOL Hydro HME 46 is a premium quality hydraulic fluid, containing a zinc based additive for reducing wear. It is composed of mineral base oils of carefully selected quality, exhibits excellent performance in a wide range of industrial and mobile hydraulic equipment exposed to heavy loads. It ensures outstanding wear resistance. In the standard vane pump test (Vickers V104C), the wear is 85 % lower than the specified limit.. This product has an outstanding thermal and hydrolytic stability. Its TOST lifetime is more than twice that required in the DIN 51524-Part 2 standard. Bosch Rexroth 90235 and Parker Denison HF-0 OEM approvals, which represent the highest requirements, prove the product's excellent wear protection for both reciprocating and vane pumps.

Application



Hydraulic systems operating at high pressures and under heavy operating conditions

Industrial equipment operating at low temperatures (pumps, servo systems)

Circulation systems

Hydraulic systems of machine-tools

Hydraulic systems of machines used in the plastics industry

Turbo-, screw and vane compressors

Hydraulic systems of earthmoving and forestry machines

Features and benefits

Excellent wear protection

Reliable operation, even in equipment exposed to heavy loads at high pressures
Improved operational safety and high level of availability

Excellent thermal and hydrolytic stability

Extremely low sludge formation
Increased oil drain interval
Reliable operation, so reduced operational costs

Excellent filterability

No deterioration of filterability, even in the presence of moisture
Calculably low filter usage even with 2-3 micron pore size filter cartridges
Reduced maintenance costs and environmental impact

Rapid air release

Reduced risk of cavitation
Outgoing air does not cause increased foaming
Reliable operation, giving longer equipment lifetime

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Features and benefits (continue)

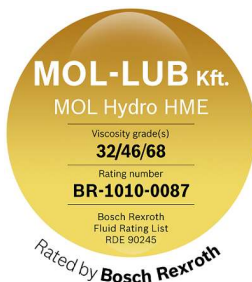
Excellent corrosion protection

Effective protection of steel and non-ferrous metal parts even in the presence of water

Excellent water separation

Water is rapidly separated from the oil and can be drained from the system
The formation of harmful deposits and filter plugging can be avoided
Abnormal corrosion and wear of equipment can be prevented
Increased operational safety of equipment

Specifications and approvals



Viscosity grade: ISO VG 46
ARBURG
Danieli 0.597666.C
ENGEL
Parker Denison HF-0
Parker Denison HF-1/HF-2
 ISO 11158 HM
 ISO-L-HM
 DIN 51524-2 (HLP)
 DIN 51506 VDL
 Eaton (Vickers) I-286-S
 Eaton (Vickers) M-2950-S
 General Motors LS2 LH-04-1-00
 Bosch Rexroth Fluid Rating List RDE 90245
 SAE MS1004 Type HM
 AIST (US Steel) 127
 AIST (US Steel) 126
 AFNOR NF-E-48603 (HM)
 Cincinnati Lamb P-70 (Fives Cincinnati)

Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,879
Kinematic viscosity at 40°C [mm ² /s]	47,3
Kinematic viscosity at 100 °C [mm ² /s]	6,9
Viscosity index	102
Pour point [°C]	-29
Flash point (Cleveland) [°C]	242

The characteristics in table are typical values of the product and do not constitute a specification.

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Storage and handling instructions

Store in the original container in dry, properly ventilated area.

Keep away from direct flame and other sources of ignition.

Protect from direct sunlight.

During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.

For further details please read the Material Safety Data Sheet of the product.

In the original container under the recommended storage conditions: 48 months

Recommended storage temperature: max. 40°C