

MOL Hydro HLPD 68 AL

ashless detergent hydraulic oil



MOL Hydro HLPD 68 AL is a hydraulic oil produced from high quality detergent and ash-free antiwear additives and carefully selected quality mineral base oils. It provides consistently high performance even in an environment affected by water and dust in industrial and mobile hydraulic systems working under heavy load conditions. It has an outstanding load carrying capacity, it provides excellent protection against wear even at high loads / low speeds (Brugger value >50 N/mm² DIN 51347-2). It ensures outstanding wear resistance. In the standard vane pump test (Vickers V104C), the wear is 80 % lower than the specified limit. Due to its high performance additive system, it has an excellent wear reducing performance, close to that of gear oils (FZG 12, DIN 51354-2). Its balanced additive system does not contain zinc, calcium or silicon compounds.

Application



- Hydraulic equipment working in dusty and wet environment
- Hydraulic systems of machine-tools
- Hydraulic presses operated indoors or outdoors
- Circulation systems
- Hydraulic systems of earthmoving and forestry machines
- Hydraulic systems of construction and mining machines

Features and benefits

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|---|---|
| Detergent-dispersant properties | Jamming of system elements can be prevented
Contaminants (water, emulsion, dust, wear particles) are finely distributed and can be removed by filtration
Ensures appropriate cleanliness of equipment |
| Outstanding wear protection | Reliable long-term operation, even in equipment exposed to heavy loads at high pressures
Long equipment lifetime |
| Good thermal and hydrolytic stability | Low deposit formation
Provides stick-free operation of servo and control valves
Long oil drain intervals
Reliable operation, so reduced operational costs |
| Rapid air release together with low foaming | Stable balanced lubricating film between friction surfaces, giving long equipment lifetimes
Reduced risk of cavitation |
| Excellent corrosion protection | Effective protection of steel and non-ferrous metal parts even in the presence of water
Long machine lifetime, so reduced maintenance cost |

Specifications and approvals

- Viscosity grade: ISO VG 68
- ISO 11158 HM
- DIN 51524-2 (HLP)
- DIN HLP-D
- Mueller Weingarten

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Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,883
Kinematic viscosity at 40°C [mm ² /s]	69,8
Kinematic viscosity at 100 °C [mm ² /s]	8,7
Viscosity index	96
Pour point [°C]	-21
Flash point (Cleveland) [°C]	235
Antiwear properties (FZG)	
- failure load stage	>12
Brugger test [N/mm ²]	>50

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

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