

# MOL Biohyd 32S

## synthetic biodegradable hydraulic oil



MOL Biohyd 32S is a synthetic biodegradable ester based hydraulic fluid. In the environment it decomposes within a given time into components that are not harmful to the environment. It is compatible with most of the sealing materials (NBR- nitrile butadiene rubber; polyurethane resins; polyacrylates; fluorinated polysiloxane and Viton type materials). It is not compatible with natural rubber or EPDM (ethylene-propylene diene monomer). It has a higher service lifetime compared with vegetable oil based hydraulic fluids. The biodegrading feature might diminish or cease to exist completely if it is mixed with non biodegradable oil. Usable in a wide temperature range: -35 to 70°C.

### Application



- Mobile and industrial hydraulic systems
- On-shore equipment, boats and sluices
- Hydraulic systems of agricultural machines
- Hydraulic systems of earthmoving and forestry machines
- Equipment in water reservoirs, sewage water plants

### Features and benefits

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| High-level biodegradability                                    | Lower environmental impact   |
| High viscosity index   | Safe application throughout the year<br>Appropriate lubrication conditions even at extreme temperatures  |
| Outstanding wear protection                                    | Reliable long-term operation, even in equipment exposed to heavy loads at high pressures<br>Long equipment lifetime  |
| Good shear stability   | Preserves viscosity for a long period  |
| Excellent corrosion protection                                 | Extreme long term protection of steel and non-ferrous metal parts<br>Long machine lifetime, so reduced maintenance cost<br>Effectively contributes to potential reduction of maintenance costs     |
| Miscible with mineral and vegetable oil based hydraulic fluids | In case of mixing, the oil charge can still be used, but the biodegradability may be reduced or eventually lost<br>In case of mixing particular attention should be paid to the condition of seals |

### Specifications and approvals

- Viscosity grade: ISO VG 32
- ISO 15380 HEES
- ISO-L-HEES
- VDMA 24568 HEES
- SS 155434

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### Properties

Properties	Typical values
Density at 15°C [g/cm <sup>3</sup> ]	0,933
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	32
Kinematic viscosity at 100 °C [mm <sup>2</sup> /s]	6,7
Pour point [°C]	-57
Flash point (Cleveland) [°C]	250
Antiwear properties (FZG)	
- failure load stage	12
Biodegradability [%]	>90

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: 24 months

Recommended storage temperature: max. 40°C