

MOL Turbine HT 46

premium gas turbine oil



MOL Turbine HT 46 is specifically designed for high reliability, long service cycle turbines and similar industrial applications.

It is made from a carefully selected combination of high quality Group II and Group III base oils and antioxidant, corrosion inhibitors and antiwear additives allowing long oil life and outstanding performance.

Exceptionally resistant to local high temperatures, oxidation processes, resulting in high performance for a very long time.

The extra high performance from the outstanding thermal stability properties of the product can only be achieved with systems of sufficient purity.

Application



Steam and gas turbines, turbines with gear drives, turbocompressors

Features and benefits

Outstanding thermal and oxidation stability

Long-term resistance to varnish formation in case of local extrem high temperature

Provides stick-free operation of servo and control valves

Very low deposit formation tendency

Long oil drain intervals

Reliable operation, so reduced operational costs

Outstanding filterability

No deterioration of filterability, even in the presence of moisture

Calculably low filter usage even with 2-3 micron pore size filter cartridges

Outstanding ISO cleanliness (max. 17/15/12)

No extra filtration cost before filling

Operational problems due to non-appropriate oil cleanliness can be prevented

Contributes to reduced operational costs

Rapid air release

Reduced risk of cavitation

Outgoing air does not cause increased foaming

Reliable operation, giving longer equipment lifetime

Extremely low foaming tendency

Forms a continuous, robust lubricating film even under forced operating conditions, giving reduced wear

Longer lubricant and equipment lifetime

Excellent corrosion protection

Extreme long term protection of steel and non-ferrous metal parts even in the presence of moisture

Long machine lifetime, so reduced maintenance cost

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Features and benefits (continue)

Excellent wear protection	Reliable operation in turbines fitted with a gearbox Improved operational safety and high level of availability
Good water separation	Effective lubrication and problem-free operation even in the presence of water Abnormal corrosion and wear of equipment can be prevented Water accumulating at the bottom of the tank can be removed easily Longer oil change interval and equipment lifetime

Specifications and approvals

Viscosity grade: ISO VG 46
MAN Turbo SPD 10000494596
ISO 8068
DIN 51515-1 L-TD
DIN 51515-2 L-TG
Cincinnati Lamb P-55
Siemens TLV 901304
Siemens TLV 901305
Solar Turbines ES 9-224 Class II
SKODA POWER
ASTM D 4304 Type I

Properties

Properties	Typical values
Density at 15 °C [g/cm ³]	0,850
Kinematic viscosity at 40 °C [mm ² /s]	45
Kinematic viscosity at 100 °C [mm ² /s]	7,3
Viscosity index	126
Pourpoint [°C]	<-12
Flash point (Cleveland) [°C]	210
Cleanliness, ISO code	<17/15/12
Oxidation stability (TOST)	
- time to 2 mgKOH/g acid number [h]	>10000
Oxidation stability (RBOT) [min]	1700
Antiwear properties (FZG)	
- failure load stage	8

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