

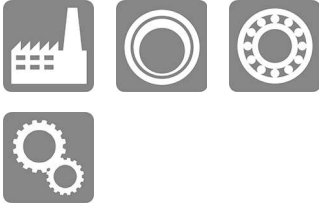
MOL TCL 460 M

circulating and bearing oil



MOL TCL 460 M is a premium quality lubricating oil developed for the operation of bearings and drive gears of industrial equipment working with high capacity circulated lubrication systems. It is a highly refined mineral oil containing additives that inhibit oxidation, wear and corrosion. It provides a high level of protection for metal components against corrosion and undue wear, it exhibits an excellent resistance to oxidation and thermal decomposition. It separates from air and water extremely quickly, as a result of which, a reliable operation and long service life of oil and equipment can be achieved.

Application



- Oil lubricated sliding and rolling bearings
- Plain bearings exposed to dynamic water loads
- Supporting roller neck bearings, Morgoil bearings
- Low- and medium-duty enclosed industrial gear drives where EP performance is not required
- For industrial use

Features and benefits

- | | |
|---|--|
| Excellent lubricity | Effective friction and wear reduction
Increased equipment service life, reduced spare parts and operational costs
Improved performance and high-level bearing protection |
| Exceptional thermal and oxidation stability | Resists the ageing process and deposit formation, even at high operating temperatures, giving long oil lifetimes and reduced maintenance costs |
| Excellent water separation | Rapid separation from water, even under large and dynamic loads when water is present
Water accumulating at the bottom of the tank can be removed easily
Less filter plugging
Abnormal corrosion and wear of equipment can be prevented
Longer oil service interval and equipment lifetime |
| Rapid air release | Reduced risk of cavitation
Outgoing air does not cause increased foaming
Continuous lubricating film, free of air bubbles
Reliable operation, giving longer equipment lifetime |
| 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 |
| Low foaming tendency | Continuous lubricating film, even at high loads
Less downtime, giving reduced maintenance costs |

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Specifications and approvals

Viscosity grade: ISO VG 460
ISO 12925-1 CKB
ISO-L-CKB
DIN 51517-2 (CL)
Morgan Construction Company
Morgoil Lubricant Spec. Rev. 1.1
SMS SIEMAG-Morgoil Lubricant Spec. SN 180 Part 3
SEB 181225 (CL)

Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,902
Kinematic viscosity at 40°C [mm ² /s]	454
Kinematic viscosity at 100 °C [mm ² /s]	29,4
Viscosity index	92
Pour point [°C]	-9
Flash point (Cleveland) [°C]	275
Neutralization number [mg KOH/g]	0,2
Water separability at 82°C	
- time to separation at 82 °C [min]	20

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