

Mobilgear SHC™ MT 68

Fully synthetic marine thruster gear oil



Energy lives here™

Product features

Mobilgear SHC™ MT 68 thruster gear oil enables smoother, reliable operation, even under extreme operating conditions of load, speed and temperature. Approved in Brunvoll thrusters, it can offer:

- Good demulsibility and resistance to rust and corrosion
- Broad compatibility with gear drive materials
- No filter plugging, even in the presence of water
- Low-traction synthetic base stocks
- Protection from micropitting and scuffing
- Excellent thermal and oxidative stability

Mobilgear SHC MT 68 oil is approved by thruster system manufacturer **Brunvoll**.

Potential benefits

Mobilgear SHC MT 68 oil helps:*

- 1 Extend gear and bearing life in enclosed gear drives
- 2 Maximise oil life and drain intervals
- 3 Reduce oil and energy consumption and lower operating temperatures
- 4 Lead to fewer filter changes and reduced maintenance costs

Exceptional component protection

Mobilgear SHC MT 68 thruster gear oil provides protection against conventional wear such as scuffing, while also offering a high level of resistance against micropitting.

It also offers outstanding resistance to rust and corrosion compared to mineral oils, including a defence against seawater and acidic water. Together these features can help provide benefits such as extended time between services and longer component life.

Recommended applications	
Spiral gears	✓
Helical gears	✓
Bevel gears	✓

*When compared with conventional mineral oils.

Mobilgear SHC™ MT 68

Greatly outperforms standard mineral oils

Mobilgear SHC™ MT 68 synthetic extreme-pressure marine gear oil is formulated to optimise the performance of equipment operating under challenging conditions. Its base oils and proprietary additives package balance to help enhance the performance of critical gearbox components.

Mobilgear SHC MT 68 oil is suitable for severe service gear drives where operators are looking to improve efficiencies. Consistently outperforming mineral oils, it is recommended for gear drives operating at bulk oil temperatures of up to 100°C (212°F) and those working under heavy or shock loads.

The oil was designed especially for marine thruster and azimuth gear drives requiring an ISO 68 viscosity gear oil with extreme-pressure additive protection. It is also recommended for enclosed marine gear drives including steel-on-steel spur, helical and bevel gears.

Efficient operation at both high and low temperatures

Critical for marine applications that operate at both high and low temperatures, Mobilgear SHC MT 68 oil's high viscosity index base stocks reduce viscosity change with temperature.

Recommended for gear drives operating at bulk oil temperatures of **up to 100°C** and those working under heavy or shock loads.

Engineered to help reduce costs compared with mineral oils

Mobilgear SHC MT 68 oil has the capability to lower operating temperatures and decrease power consumption in many gear drives, thereby potentially reducing operating costs. Even in the presence of water, no filter plugging occurs, leading to fewer filter changes and potentially reduced maintenance costs. It also reduces oil consumption, extending drain intervals while cutting disposal costs.

Typical properties

Mobilgear SHC MT 68	
ISO Viscosity Grade	68
Viscosity, ASTM D 445	
cSt @ 40°C	68
cSt @ 100°C	10.8
Viscosity Index, ASTM D 2270	149
Pour Point, °C, ASTM D 97	-51
Flash Point, °C, ASTM D 92	240
Specific Gravity @15.6 °C kg/l, ASTM D 4052	0.855
Timken OK Load, ASTM D2782, lb	65
FE 8 wear test, DIN 51819-3, D7,5/80-80. Roller wear, mg	2
FZG Scuffing, A/8,3/90, Fail Stage/Rating	13+
FZG Micropitting, FVA 54, Fail Stage/Rating	10/High
4-Ball Wear test, ASTM D 4172, mm (Mod1,800 RPM, 20kg, 54°C, 60 Minutes)	0.37
Rust protection, ASTM D665B, Seawater	Pass
Water Seperability, ASTM D 1401,Time to 40/37/3 at 82°C, minutes	10
Foaming Characteristics, ASTM D 892	
Seq II	0/0