

Mobilgard™ 540 AC

A marine diesel engine cylinder oil that is Category II approved by MAN Energy Solutions



Product features

Mobilgard™ 540 AC is a cylinder oil specifically formulated by ExxonMobil to meet the advanced cleanliness requirements of MAN Energy Solutions' Category II requirements and is recommended for use with its Mark 9 and newer 2-stroke marine engine designs.

Mobilgard 540 AC is for use in slow-speed, two-stroke marine engines operating on LNG, 0.10% sulphur fuels and 0.50% sulphur fuels.

The oil has been engineered using ExxonMobil's balanced formulation approach. It has also passed stringent fit-for-use assessments. It can help:

- **Deliver exceptional cleanliness due to high level of detergency**
- **Combat deposits and scuffing-related engine wear associated with low-sulphur fuels**
- **Ensure performance even in severe operating conditions as a result of excellent thermal and oxidative stability**

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has MAN ES Category
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Potential benefits

Mobilgard 540 AC cylinder oil helps:*

- 1** Prolong engine life
- 2** Minimise maintenance
- 3** Enhance vessel reliability

Established performance

Mobilgard 540 AC is part of the MobilGard™ range of high performance cylinder oils. It was formulated to meet the specific needs of slow-speed two-stroke marine engines operating on 0.10% sulphur fuels, 0.50% sulphur fuels (including ExxonMobil's EMF.5™ range) and LNG. It is backed up by more than 60 years of engineering excellence and lubrication technology.

Maximise cost savings

Mobil Serv™ Cylinder Condition Monitoring, used in conjunction with Mobilgard 540 AC, can help vessel operators optimise cylinder oil feed rates while also improving engine protection. The next-generation onboard scrape down oil analysis service can spot issues before they become problems, which can help achieve significant cost savings.

Marine engine builder	No Objection Letter
MAN ES (Category II)	✓

*When compared with a standard 40 BN cylinder oil and no/limited scrape down oil analysis.

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Typical properties

SAE Grade	50
Specific Gravity at 15°C	0.904
Flash Point, °C, ASTM D 93	207
Pour Point, °C, ASTM D 97	-30
cSt, at 40°C	218
cSt, at 100°C	19
Viscosity Index, ASTM D 2270	99
TBN, mg KOH/g, ASTM D 2896	40