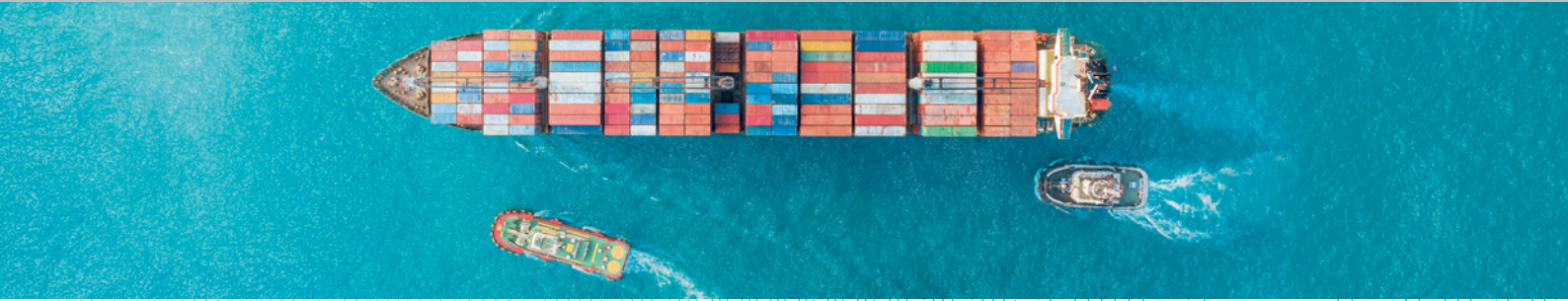


Mobilgard™ 540 X

High-performance marine diesel engine cylinder oil for use with 0.10%, 0.50% sulphur fuels and LNG



Energy lives here™

Product features

Mobilgard™ 540 X cylinder oil has been specifically formulated to provide outstanding performance in two-stroke marine diesel engines, allowing vessel operators the flexibility to use it with 0.10%, 0.50% sulphur fuels and Liquefied Natural Gas (LNG).

Thanks to the cylinder oil's advanced formulation, detergency technologies, and low Base Number (BN), it demonstrates the following across all three fuel types:

- **Exceptional deposit control across all low sulphur fuels under high combustion temperatures and pressures (particularly prevalent in LNG fuel operation)**
- **Outstanding protection and optimised cylinder oil feed-rates whilst effectively neutralising acid**
- **Reduced complexity, allowing operators to seamlessly switch between fuels**

Mobilgard 540 X
is the first cylinder
oil to be gas
validated by
WinGD.

Marine engine builder	No Objection Letters			
	Fuel type	0.10% sulphur	0.50% sulphur	Liquefied Natural Gas (LNG)
WinGD		✓	✓	✓

Continuous innovation

Mobilgard 540 X is the latest innovation in the MobilGard™ range of high-performance cylinder oils. Reflecting the evolving fuels landscape, it was formulated to provide effective lubrication across a wide range of fuel applications (0.10% and 0.50% sulphur fuels, as well as LNG). It is backed up by more than 60 years of engineering excellence and lubrication technology.

Maximum efficiencies

Used in conjunction with Mobilgard 540 X, the real-time insights offered by Mobil Serv™ Cylinder Condition Monitoring can help vessel operators optimise cylinder oil feed rates even further, as well as enhance engine protection. The next-generation onboard scrape down oil analysis service can identify issues before they become problems, enabling significant cost savings.

Approvals

Mobilgard 540 X was engineered in close collaboration with leading marine engine builders and has passed stringent fit-for-use testing in the most recent engine designs. It has received no objection letters from WinGD for all three fuel types.

Typical Properties

SAE Grade	50
Density @ 15.6°C	930.1
Pour Point, °C, ASTM D97	-27
Flash Point, °C, ASTM D92	268
Total Base Number, mg KOH/g, ASTM D2896	40
Viscosity Index, ASTM D2270	102
Kinematic Viscosity cSt @ 40 °C, ASTM D445	232
Kinematic Viscosity cSt @ 100 °C, ASTM D445	20