ExxonMobil

# Mobilgard™ 540

ExxonMobil Marine , Sweden

Marine Diesel Engine Cylinder Oil

## Product Description

Mobilgard ™ 540 by ExxonMobil is a high quality marine diesel engine cylinder oil for slow-speed crosshead engines and is specifically formulated for engines running on 0.50 percent sulphur fuels and is suitable for Ultra Low (<0.10%S) sulphur fuel operation in conjunction with Original Equipment Manufacturer (OEM) guidance. Designed to maximise all-round performance through use of a balanced formulation, Mobilgard 540 has a BN level of 40mg/KOH/g to sufficiently neutralise acid formulation whilst also keeping engines clean to minimise maintenance requirements. To ensure optimum lubricant distribution and oil film retention to help protect engine parts, Mobilgard 540 has an optimum viscosity of 20cST at 100C.

## Features and Benefits

- Combats deposits and scuffing related engine wear issues associated with the usage of 0.50 percent sulphur fuels
- Balanced formulation provides excellent acid neutralisation properties in which cleaner engines can lead to reduced component wear rates
- Excellent thermal and oxidative stability to ensure performance in a wide range of engine operating conditions

## Applications

- Marine crosshead engines

## Specifications and Approvals

| This product has the following approvals: |
|---|
| MAN Energy Solutions Copenhagen (Heritage MAN B&W) Category I for 2-Stroke Marine Engines |
| Winterthur Gas and Diesel Engine (Heritage Wartsila & Sulzer) Liquid Fuel General Usage for 2-Stroke Marine Engines according to manufacturer´s latest operating guidelines |
| Winterthur Gas and Diesel Engine (Heritage Wartsila & Sulzer) Gas General Usage for 2-Stroke Marine Engines |

| This product meets or exceeds the requirements of: |
|---|
| Japan Engine Corporation (Heritage MHI) 2-Stroke engines according to manufacturer's latest operating guidelines |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 50 |
| Density @ 15 C, g/ml, ASTM D4052 | 0.919 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 248 |

| Property | |
|---|---|
| Pour Point, °C, ASTM D97 | -21 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 216 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 20 |
| Viscosity Index, ASTM D2270 | 98 |
| Total Base Number, mgKOH/g, ASTM D2896 | 40 |

### Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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