ExxonMobil

# Mobilgard™ 5100

ExxonMobil Marine , Greece

Marine Diesel Engine Cylinder Oil

## Product Description

Mobilgard™ 5100 by ExxonMobil is a premium quality, high-performance marine diesel engine cylinder oil. The performance of Mobilgard 5100 has been demonstrated at the elevated peak firing pressures and liner temperatures found in modern marine two stroke engines. Through the use of a balanced formulation, for all-round performance in conjunction with a high Base Number (BN), Mobilgard 5100 has demonstrated the ability to optimise cylinder oil feed-rates whilst mitigating corrosive wear in highly corrosive engines. It has an optimum viscosity of over 20 cSt. at 100ºC and low volatility to ensure excellent lubricant distribution and oil film retention.

## Features and Benefits

• Protection from corrosion in new, more demanding and corrosive engine types during all ranges of operation, including slow steaming.

• Excellent thermal and oxidation stability can lead to reduced deposits and sludge formation.

• Superior detergency capability leads to potentially cleaner engine components.

• Balanced formulation with low volatility can lead to lower feed rates and reduced cylinder oil consumption.

## Applications

- Marine crosshead engines

## Specifications and Approvals

| This product has the following approvals: |
|---|
| Everllence (formerly MAN Energy Solutions) Category II for 2-Stroke Marine Engines |
| WinGD Ltd. Liquid Fuel General Usage for 2-Stroke Marine Engines according to manufacturer´s latest operating guidelines |

| 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 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 253 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 20 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 233 |
| Pour Point, °C, ASTM D97 | -24 |

| Property | |
|---|---|
| Specific Gravity, 15 C/15 C, ASTM D4052 | 0.957 |
| Total Base Number, mgKOH/g, ASTM D2896 | 100 |
| Viscosity Index, ASTM D2270 | 95 |

## 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

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

07-2025
ExxonMobil Marine Limited
Ermyn Way
Leatherhead, Surrey
United Kingdom KT22 8UX

http://www.exxonmobil.com

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

ExxonMobil

© Copyright 2003-2026 Exxon Mobil Corporation. All Rights Reserved