ExxonMobil

# Mobilgard™ 5145

ExxonMobil Marine , Saudi Arabia

Marine Diesel Engine Cylinder Oil

## Product Description

Mobilgard™ 5145 by ExxonMobil is a premium quality, extra high performance, marine diesel engine cylinder oil. The outstanding performance of Mobilgard 5145 has been demonstrated at the elevated peak firing pressures and liner temperatures found in modern marine two stroke engines. It has an optimum viscosity of 20 cSt. at 100°C and low volatility to ensure excellent lubricant distribution and oil film retention. Mobilgard 5145 has demonstrated outstanding acid neutralisation capabilities, cleanliness and excellent ring and liner protection under sustained operation in highly corrosive engines under a variety of operating conditions, including slow steaming. Through the use of a balanced formulation, the high viscosity and low volatility is attained with little or no use of bright stock which can create deposit formation due to poor thermal stability.

## Features and Benefits

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- Excellent corrosion protection in newer, more demanding engine types all operations, including slow steaming, leading to lower feed rates.
- Supreme thermal and oxidation stability can lead to reduced deposits and sludge formation. Cleaner engines can lead to reduced component wear rates.
- Exceptional anti-wear properties lead to potentially reduced liner and ring wear and excellent anti-scuffing control.
- Outstanding detergency capability leads to potentially cleaner pistons and liners and can help extend periods between overhauls.

## Specifications and Approvals

| This product has the following approvals: |
|---|
| MAN Energy Solutions Copenhagen (Heritage MAN B&W) Category II 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 |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 50 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 20 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 210 |
| Viscosity Index, ASTM D2270 | 105 |
| Density @ 15 C, kg/m3, ASTM D4052 | 0.976 |
| Pour Point, °C, ASTM D97 | -24 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 250 |
| Total Base Number, mgKOH/g, ASTM D2896 | 145 |

### 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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