



Mobilgard™ 5100

ExxonMobil Marine , Canada

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 100°C 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:
MAN Energy Solutions Copenhagen (Heritage MAN B&W) 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, mm ² /s, ASTM D445	20
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	233

Property	
Pour Point, °C, ASTM D97	-24
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.

08-2024

Imperial Oil

Petroleum and Chemicals Division
Lubricants and Specialties
240 Fourth Ave SW
C. P. 2480, Station M
Calgary AB T2P 3 M 9
1-800-268-3183

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local Imperial Oil contact or visit www.imperialoil.ca

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Imperial Oil, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil

© Copyright 2003-2025 Exxon Mobil Corporation. All Rights Reserved