ExxonMobil

Mobilgard™ 5100

ExxonMobil Marine , Japan

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
Winterthur Gas and Diesel Engine (Heritage Wartsila & Sulzer) 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

Property	
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	233
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

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