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Mobilgard™ HSD 15W-40

ExxonMobil Marine , Zambabwe

Product Description

Mobilgard HSD 15W-40 by Mobil is an extra high performance, multi-grade engine oil specifically formulated for severe service high-speed diesel engines in marine applications. Its advanced chemistry provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operating on low or high sulphur distillate fuel. Mobilgard HSD 15W-40 is approved or recommended by all the major marine high-speed diesel engine builders.

Features and Benefits

Mobilgard HSD 15W-40 combines a blend of high quality base stocks with a superior balanced additive system to provide exceptional control of oil thickening due to soot build-up and high temperatures, as well as outstanding resistance to oxidation, corrosion, and high temperature varnish deposits.

When used as recommended, Mobilgard HSD 15W-40 diesel engine oil provides the following features and potential benefits:

Features	Advantages and Potential Benefits
Outstanding thermal and oxidation stability	Reduces formation of deposits and sludge build-up Keeps engines clean and operating smoothly
Excellent wear protection	Extended life of critical engine components
High Viscosity Index	Stable oil film at all operating temperatures Reduced oil consumption
Increased high temp/high shear performance	Reduced engine scuffing, bore polishing and ring sticking
Outstanding TBN retention	Protects engine parts from corrosive wear and deposits
Excellent water tolerance and separation capability	Maintains effective lubrication and film-strength in the presence of water
Excellent low temperature properties	Improved oil pumpability/circulation at start-up Start-up wear protection especially for valve train area

Applications

Mobilgard HSD 15W-40 is designed to provide outstanding performance in the most severe service marine applications of modern high-speed diesel engines, such as Caterpillar 3500 Series and smaller bore, Cummins, Volvo, Daihatsu, Yanmar, and others.

Specifications and Approvals

This product has the following approvals:
MB-Approval 228.3
VOLVO VDS-3

This product is recommended for use in applications requiring:

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API CF
API CF-4
API CG-4
MAN M 3275-1
Cummins CES 20071
Cummins CES 20072
Detroit 7SE 270 (4-STROKE CYCLE)

This product meets or exceeds the requirements of:
API CH-4
API CI-4
API SJ
API SL
Cummins CES 20076
Cummins CES 20077
ACEA E7
CATERPILLAR ECF-2

Properties and Specifications

Property	
Grade	SAE 15W-40
Ash, Sulfated, mass%, ASTM D874	1.1
Flash Point, °C, ASTM D92	227
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.2
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	105
Pour Point, °C, ASTM D97	-33
Specific Gravity, 15 C/15 C, ASTM D4052	0.881
Total Base Number, mgKOH/g, ASTM D2896	10
Viscosity Index, ASTM D2270	138

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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