



Mobilgard™ HSD 15W-40

ExxonMobil Marine , Pakistan

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 r applications. Its advanced chemistry provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operat 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 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, s 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: |
| API CF |

This product is recommended for use in applications requiring:

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, mm ² /s, ASTM D445 | 14.2 |
| Kinematic Viscosity @ 40 C, mm ² /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.as>

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07-2021

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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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