ExxonMobil

# Mobilgard™ HSD 15W-40

ExxonMobil Marine , Dem Rep Congo

## 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<br>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<br>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<br>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: |
|---|

| This product is recommended for use in applications requiring: |
|---|
| 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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