



## 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<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:**

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, mm <sup>2</sup> /s, ASTM D445 | 14.2       |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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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