



Mobilgard DEO Series

ExxonMobil Marine , Cambodia

High Speed Diesel Engine Oil

Product Description

Mobilgard™ DEO ( Diesel Engine Oil) Series are high performance monograde diesel engine oils formulated with high quality base stocks and a balanced additive package for use in marine applications.

Features and Benefits

| Features   | Advantages and Potential Benefits   |
|--|---|
| Extended TBN reserve                                       | Protects engine parts from corrosive wear and deposits Controls formation of acids when using higher sulfur fuels |
| Good protection against oil thickening and sludge built-up | Prolonged engine life   |
| Excellent thermal and oxidation stability                  | Keeps engines clean and operating smoothly  |
| Increased high temp/high shear performance                 | Reduced engine scuffing, bore polishing and ring sticking   |

Applications

Mobilgard DEO Series are designed to provide superior performance in severe marine applications, especially for older and reconditioned marine high speed engines. Mobilgard™ DEO Series are used in engines where a monograde lubricant is recommended requiring API CF or CD.

Specifications and Approvals

| This product is recommended for use in applications requiring: | MOBILGARD DEO 30 | MOBILGARD DEO 40 |
|--|------------------|------------------|
| API CD   | X                | X                |
| API CF   | X                | X                |

Properties and Specifications

| Property                                      | MOBILGARD DEO 30 | MOBILGARD DEO 40 |
|---|------------------|------------------|
| Grade   | SAE 30           | SAE 40           |
| Ash, Sulfated, mass%, ASTM D874               | 1.1              | 1.1              |
| Density @ 15 C, g/cm3, ASTM D4052             | 0.89             | 0.9              |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 256              | 254              |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 11.8             | 14.6             |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445  | 106              | 146              |

| Property                               | MOBILGARD DEO 30 | MOBILGARD DEO 40 |
|--|------------------|------------------|
| Pour Point, °C, ASTM D97               | -21              | -21              |
| Total Base Number, mgKOH/g, ASTM D2896 | 10.1             | 10.1             |
| Viscosity Index, ASTM D2270            | 99               | 99               |

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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