



## Mobilgard™ 12 Series

### Diesel Engine Oils

#### Product Description

Mobilgard™ 12 Series by ExxonMobil are high performance diesel engine oils developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. They have superior water separating properties and provide excellent corrosion protection.

#### Features and Benefits

Mobilgard 12 Series is formulated with base oils having proven successful performance in diesel engines. The additive system is balanced to provide excellent resistance to thermal degradation under moderately severe operating conditions. They also provide good engine cleanliness and superior wear protection.

When used as recommended, Mobilgard 12 Series oils provide the following features and potential benefits:

| Features                                    | Advantages and Potential Benefits                           |
|---|---|
| Excellent thermal and oxidation stability   | Extended periods between inspections, overhaul and cleaning |
| Improved antiwear properties                | Reduced ring and liner wear                                 |
| Excellent TBN reserve and retention         | Increased protection against corrosive wear                 |
| Excellent detergency/dispersancy properties | Increased oil service life<br>Cleaner engines               |

#### Applications

The Mobilgard 12 Series diesel engine oils are intended for use as cylinder and bearing lubricants in marine and industrial diesel engines operating on distillate fuels or light fuel blends. They are particularly effective in small bore, high speed engines in fishing fleets; in new, severe service engines; and in many types of medium speed engines. They may be used as crankcase lubricants in large crosshead type diesel engines operating on high sulphur fuels. Mobilgard 512 is recommended occasionally by some builders as running-in oil for crosshead type engines.

#### Typical Properties

|                            | 312   | 412   | 512   |
|----------------------------|-------|-------|-------|
| SAE Grade                  | 30    | 40    | 50    |
| Specific Gravity at 15°C   | 0.896 | 0.899 | 0.903 |
| Flash Point, °C, ASTM D 92 | 266   | 272   | 282   |
| Pour Point, °C, ASTM D 97  | -9    | -9    | -9    |
| Viscosity, ASTM D 445      |       |       |       |
| cSt, at 40°C               | 108   | 142   | 219   |
| cSt at 100°C               | 12.0  | 14.5  | 19.4  |

| Property                       | 12.0 | 14.0 | 15.4 |
|--------------------------------|------|------|------|
| Viscosity Index, ASTM D 2270   | 100  | 100  | 100  |
| TBN, mg KOH/g, ASTM D 2896     | 15   | 15   | 15   |
| Sulphated Ash, wt%, ASTM D 874 | 2.1  | 2.1  | 2.1  |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your sales contract office, or via the Internet on <http://www.exxonmobil.com>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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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