ExxonMobil

Mobilgard™ 12 Series

ExxonMobil Marine , Luxembourg

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 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 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.

Specifications and Approvals

According to ExxonMobil, this product is of the following quality level:	312	412
API CF	X	X

This product has the following approvals:	312	412
Caterpillar / MaK 4-Stroke Medium Speed Diesel Engine (Distillate Operation)		X
Everllence (formerly MAN Energy Solutions) 4 Stroke medium speed engines for Alternating Distillate / LNG operation		X
Everllence (formerly MAN Energy Solutions) 4 Stroke medium speed engines for Distillate operation		X
Wartsila 4-Stroke Medium Speed Engines for Distillate- and Dual-Fuel operations		X

Properties and Specifications

Property	312	412
Grade	SAE 30	SAE 40
Ash, Sulfated, wt%, ASTM D874	2.1	2.1
Flash Point, Cleveland Open Cup, °C, ASTM D92	266	272
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	12	14.5
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	108	142
Pour Point, °C, ASTM D97	-9	-9
Specific Gravity, 15.6 C/15.6 C, ASTM D4052	0.896	0.899
Total Base Number, mgKOH/g, ASTM D2896	15	15
Viscosity Index, ASTM D2270	100	100

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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