

Mobilgard™ 12 Series

Trunk piston diesel engine lubricants



Energy lives here™

Product features

Mobilgard™ 12 Series oils (Mobilgard™ 312 and Mobilgard™ 412) can offer:

- Excellent thermal and oxidation stability
- Improved antiwear properties
- Outstanding TBN reserve and retention
- Excellent detergency/dispersancy properties

After switching to Mobilgard 412 oil, supply vessel Malaviya 25 extended drain intervals and saved close to **US \$32,000 annually.***

Formulation

Mobilgard 12 Series oils are engineered with base oils that have proven performance. This formulation is enhanced by the additive system, which is balanced to provide excellent resistance to thermal degradation under moderately severe operating conditions and protection against increases in viscosity.

Potential benefits

Mobilgard 12 Series oils can help:

- 1** Extend periods between inspections, overhaul and cleaning
- 2** Reduce ring and liner wear
- 3** Increase protection against corrosive wear
- 4** Increase oil service life and keep engines cleaner

Compatible with low-sulphur distillate fuels

Mobilgard 12 Series oils are high-performance diesel oils developed for use in trunk piston engines operating on low-sulphur distillate fuels in marine and industrial applications. They are formulated to deliver resistance to oxidation and viscosity increase over a long period of service.

The oils, which are also compatible with ExxonMobil's ECA fuels, provide outstanding corrosion and wear protection, engine cleanliness and water separation properties.

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Cylinder and bearing lubricants

Mobilgard™ 12 Series oils are intended for use as cylinder and bearing lubricants in marine and industrial diesel engines operating on distillate fuels or light fuel blends. Their primary applications are in high-speed engines in fishing fleets, newer-design severe-service engines and a range of medium-speed engines.



Typical properties

Mobilgard 12 Series	312	412
SAE Grade	30	40
Specific Gravity at 15°C	0.896	0.899
Flash Point, °C, ASTM D 92	266	272
Pour Point, °C, ASTM D 97	-9	-9
Viscosity, ASTM D 445		
cSt, at 40°C	108	142
cSt, at 100°C	12.0	14.5
Viscosity Index, ASTM D 2270	100	100
TBN, mg KOH/g, ASTM D 2896	15	15
Sulphated Ash, wt%, ASTM D 874	2.1	2.1