ExxonMobil

Mobilgard M20 Series

ExxonMobil Marine , Norway

Diesel Engine Oils

Product Description

Mobilgard M20 Series by ExxonMobil is a premium, extra high performance 20 TBN engine oil series designed for use in the residual, distillate and LNG-fuelled medium-speed diesel engine applications found in marine and stationary power industries.

Mobilgard M20 Series is an extension to the outstanding ExxonMobil Mobilgard M Series trunk piston engine oils and is specifically formulated to support the transition to lower Sulphur fuels in light of fuel regulations.

High performance additive detergent technology is utilised to provide outstanding residual fuel-lube compatibility characteristics for enhanced engine cleanliness, especially in crankcase compartments, camshaft areas, piston ring and under-crown areas.

Mobilgard M20 series oils also demonstrate excellent high temperature oxidation and thermal stability, low volatility, high load carrying properties and corrosion protection across a wide range of fuel grades.

Features and Benefits

Features	Advantages and Potential Benefits
Excellent thermal and oxidation stability	Reduced deposits in piston undercrown and ring belt areas
Improved anti-wear properties	Extends the life of critical wear surfaces
Advanced detergency/dispersancy	Clean camshaft and crankcase spaces
Outstanding rust and corrosion properties	Protects wear surfaces from water and acidic corrosion
High Residual Fuel Compatibility	Reduced sludge formation, longer oil life, cleaner engines
Low volatility base stocks	Reduced lubricant consumption
Excellent TBN Reserve and Retention	Combats fuel/combustion related corrosion and deposits

Applications

Mobilgard M20 Series oils can be used in most medium-speed trunk piston engine applications. They are recommended for use in main propulsion and auxiliary engines on deep-sea vessels; in main propulsion engines on coastal and river ships; and in stationary power plants. This new Series of oils is the result of an extensive research and development program, incorporating ExxonMobil's patented DAC (Detecting Aspahltene Contamination) Test.

Mobilgard M20 Series is specifically formulated for use in medium speed engines using 0.50% and 0.10% sulphur fuels and liquefied natural gas (LNG) due to its low BN formulation. They are recommended for use in the latest model medium speed diesel engines and are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures.

Specifications and Approvals

This product has the following approvals:	MOBILGARD M320	MOBILGARD M420
MAN Energy Solutions Augsburg (Heritage MAN B&W) 4 Stroke medium speed engines for Alternating HFO / LNG operation	X	X

This product has the following approvals:	MOBILGARD M320	MOBILGARD M420
MAN Energy Solutions Augsburg (Heritage MAN B&W) 4 Stroke medium speed engines for HFO operation	X	X

This product meets or exceeds the requirements of:	MOBILGARD M320	MOBILGARD M420
WARTSILA* No Objection (letter on file)		X

Properties and Specifications

Property	MOBILGARD M320	MOBILGARD M420
Grade	SAE 30	SAE 40
Density @ 15 C, kg/l, ASTM D4052	0.902	0.902
Flash Point, Cleveland Open Cup, °C, ASTM D92	255	271
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	10.8	14
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	90	134
Pour Point, °C, ASTM D97	-12	-15
Total Base Number, mgKOH/g, ASTM D2896	20	20
Viscosity Index, ASTM D2270	101	102

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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09-2020
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