



Mobilgard ADL Series

ExxonMobil Marine, Norway

Diesel Engine Oils

Product Description

Mobilgard ADL Series by ExxonMobil is a high performance family of increased dispersancy engine oils for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. These advanced diesel lubricants are available in both SAE 30 and 40 grades to suit most marine engine viscosity requirements. As a result of a special balance of detergent and dispersant properties these oils provide not only increased resistance to cylinder liner lacquer formation in severe service applications, but also assist in sludge and deposit removal. Use of Mobilgard ADL Series oils avoids high oil consumption associated with cylinder liner lacquering, improves overall engine cleanliness and can increase time between engine overhauls. Superior load carrying properties minimise piston ring and liner wear, and also make Mobilgard ADL Series lubricants suitable for marine gearing applications.

Features and Benefits

Mobilgard ADL Series oils have demonstrated superior performance in the latest model diesel engines, including engines of MAN BandW Alpha, Caterpillar (3600 Series), Deutz, and Wartsila. In extensive field testing on these engines, Mobilgard ADL Series oils corrected many problems normally associated with severe service engines operating on lower quality fuels. Results included dramatically reduced oil consumption, significantly reduced liner lacquering and extended periods between overhauls. These advanced diesel lubricants possess excellent water separation, rust and corrosion resistance properties.

Key features and potential benefits include:

Features	Advantages and Potential Benefits
Increased thermal and oxidation stability	Improved engine cleanliness, reduced liner lacquering, reduced top deck sludge, reduced piston ring groove deposits and bore polishing
Superior wear protection	Extends the life of critical wear surfaces
Enhanced detergency/dispersancy capability	Reduced deposits especially in the ring belt area which leads to extended cylinder overhauls and reduced oil consumption
Stay-in-grade shear stability	Reduced oil consumption and improved bearing protection
High TBN levels	Prevents corrosive wear due to higher sulphur fuels
Broad range of engine applications	One severe service engine lubricant for all shipboard applications

Applications

Mobilgard ADL Series lubricants are intended for use in high BMEP engines and in severe duty engine applications where the nature of the fuel and service requires a greater level of detergency/dispersancy and liner lacquer control than is offered by most diesel engine lubricants.

Specifications and Approvals

Mobilgard	ADL 30	ADL 40
Recommended by ExxonMobil for use in applications requiring API CF	X	X
Meets the requirements of many major medium-speed marine diesel engine builders	X	X
GE 250MDA/B (V or L)		X

Typical Properties

	ADL 30	ADL 40
SAE Grade	30	40

	ADL 30	ADL 40
Specific Gravity at 15°C	0.889	0.892
Flash Point, °C, ASTM D 92	230	239
Pour Point, °C, ASTM D 97	-30	-21
Viscosity, ASTM D 445		
cSt, at 40°C	90	132
cSt, at 100°C	11.5	14.7
Viscosity Index, ASTM D 2270	117	112
TBN, mg KOH/g, ASTM D 2896	12	12
Sulphated Ash, wt%, ASTM D 874	1.4	1.4

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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