



## 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

Key features and potential benefits include:

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.

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.

Meets the requirements of many major medium-speed marine diesel engine builders

### Specifications and Approvals

This product has the following approvals:	ADL 30	ADL 40
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<b>This product has the following approvals:</b>	<b>ADL 30</b>	<b>ADL 40</b>
General Electric Fundamental Approval (letter on file)		X
Caterpillar/MaK 4-Stroke Medium Speed Diesel Engine (Distillate)		X
MAN Energy Solutions Augsburg (Heritage MAN B&W) 28/33D engines		X
MAN Energy Solutions Augsburg (Heritage MAN B&W) 4 Stroke medium speed engines for Alternating Distillate / LNG operati	X	X
MTU Oil Category 2	X	X
ORTLINGHAUS-WERKE GMBH ON 9.2.10	X	
WARTSILA Medium Speed Diesel Engine	X	X
ZF TE-ML 04B	X	X

<b>This product is recommended for use in applications requiring:</b>	<b>ADL 30</b>	<b>ADL 40</b>
ACEA E2	X	X
API CF	X	X
API SF	X	X
MAN 270	X	X

#### Properties and Specifications

<b>Property</b>	<b>ADL 30</b>	<b>ADL 40</b>
Grade	SAE 30	SAE 40
Ash, Sulfated, mass%, ASTM D874	1.4	1.4
Flash Point, Cleveland Open Cup, °C, ASTM D92	230	239
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	11.5	14.7
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	90	132
Pour Point, °C, ASTM D97	-30	-21
Total Base Number, mgKOH/g, ASTM D2896	12	12
Viscosity Index, ASTM D2270	117	112

#### 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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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

