



MOBILGARD ADL SERIES

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.

PROPERTIES & 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:

Properties	Potential advantages and 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.
Excellent load carrying capability.	Extends life of bearing surfaces.
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. These lubricants also have high FZG ratings, which makes them excellent extreme pressure gear lubricants.

SPECIFICATIONS

MOBILGARD ADL SERIES	ADL 30	ADL 40
Qualified against the API CF performance level	X	X
Meets the requirements of many major medium-speed marine diesel engine builders	X	X

TYPICAL CHARACTERISTICS

MOBILGARD ADL SERIES	ADL 30	ADL 40
SAE Grade	30	40
Specific Gravity @ 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, @ 40°C	90	132
cSt, @ 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 & 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).

The typical property values shown in the table are average figures given as a guide. They do not constitute a guarantee. Values may be modified without notice.

