Mobil

Mobil Delvac MX 15W-40

High Performance Diesel Engine Oil

Product Description

Mobil Delvac MX 15W-40 is a high performance diesel engine oil that helps extend engine life in the most severe on and off highway applications. The advanced chemistry of these products delivers exceptional performance in both modern, high-output engines including those with Exhaust Gas Recirculation (EGR), as well as older engines operating on either low or high sulfur fuels. As a result, Mobil Delvac MX 15W-40 meets or exceeds the API CI-4 PLUS service category and ACEA E7 industry specifications.

Mobil Delvac MX 15W-40 is recommended by ExxonMobil for use in a wide range of heavy duty applications and operating environments found in the trucking, mining, construction, quarrying, marine and agricultural industries. These products will provide outstanding protection in the most demanding diesel engines of Caterpillar, Cummins, Detroit Diesel, Mack, Mercedes Benz, Navistar, Volvo, and others. Mobil Delvac MX 15W-40 also meets or exceeds the API SL specification for gasoline engines and mixed fleets.

The outstanding performance reserve of Mobil Delvac MX 15W-40 is the result of extensive cooperative development work with major Original Equipment Manufacturers (OEMs) and advanced additive chemistry with patented Trimer technology. These enhancements assure excellent control of oil thickening due to soot build-up and exposure to higher temperatures and provide outstanding resistance to oxidation, corrosion, wear, and high temperature deposits.

Features and Benefits

Modern high output diesel engines including those using EGR technology generate higher levels of soot and run at higher temperatures than older, naturally aspirated engines, which significantly increases the demands on engine lubricants. These engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Top piston rings are located higher on the piston bringing the oil film closer to the combustion chamber where higher temperatures increase thermal stress on the lubricant. Higher fuel injector pressure and retarded timing improve exhaust emission control, but also increase engine temperatures and increase soot loads, including those engines operating with EGR. The key benefits include:

Features	Advantages and Potential Benefits
Outstanding thermal and oxidation stability	Reduced low temperature sludge build-up and high temperature deposits
Extended TBN reserves	Improved soot handling and extended drain intervals
Stay-in-grade shear stability	Reduced oil consumption and wear protectionMaintains viscosity in severe, high temperature service
Excellent low temperature pumpability	Easier engine start-up and reduced wear
Superb resistance to corrosion	Longer life of critical wear surfaces

Applications

Recommended by ExxonMobil for use in:

- High performance diesel applications including pre-2007 turbo-charged, low emission engines designs, including those featuring EGR technology
- On highway applications operating in both high speed/high load and short haul pick-up/delivery
- Off highway applications operating in severe low speed/heavy load conditions
- Modern marine high-speed diesel engines, including Caterpillar, Cummins, Volvo, Daihatsu, and Yanmar.

- High performance gasoline engines and mixed fleet operators
- Diesel-powered equipment from American and Japanese OEMs
- On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture
- Transmissions requiring Allison C-4 (SAE 15W-40 Grade)

Specifications and Approvals

Mobil Delvac MX 15W-40 meets or exceeds the requirements of the following industry and builder specifications:	**15W-40**
API CI-4, CH-4, CF, SL, SJ	X
Caterpillar ECF-2	X
ACEA E7	X
Cummins CES 20078 / 20077 / 20076	X
Renault Trucks RLD	X

Mobil Delvac MX has the following builder approvals:	**15W-40**
Mack EO-M PLUS	X
MB-Approval 228.3	X
Volvo VDS-3, VDS-2	X
MAN M 3275-1	X
MTU Oil Category 1 (Open crankcase only – up to 500 hr ODI)	X

Mobil Delvac MX is recommended by ExxonMobil for use in applications requiring:	**15W-40**
Allison C-4	X
API CG-4, CF-4	X
Mack EO-M	X
ZF TE-ML-04-C	X
Cummins CES 20072 / 20071	X
Detroit Diesel 7SE 270 (4-Stroke Cycle)	X
ACEA B4, B3, A2	X

Typical Properties

Mobil Delvac MX 15W-40	
SAE Grade	15W-40
Viscosity, ASTM D 445	
cSt @ 40ºC	123
cSt @ 100ºC	15.6
CCS, cP, ASTM D 5293	6000 @ -20ºC
MRV, cP, ASTM D 4684	29,000 @ -25°C
HTHS @ 150ºC, cP, ASTM D4683	4.3
Viscosity Index, ASTM D 2270	133
Sulfated Ash, wt%, ASTM D 874	1.3
Total Base #, mg KOH/g, ASTM D 2896	12
Pour Point, ºC, ASTM D 97	-30
Flash Point, ºC, ASTM D 92	230

Flash Point, °C, ASTM D 92	230
Density @ 15ºC kg/l, ASTM D 4052	0.879

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

12-2010

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