



Mobil Delvac MX™ F3 15W-40

Mobil Commercial Vehicle Lube , Barbados

High Performance Diesel Engine Oil

Product Description

Mobil Delvac MX™ F3 15W-40 is a high performance diesel engine oil that helps extend engine life in 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 F3 15W-40 meets or exceeds the API CI-4 PLUS service category.

Mobil Delvac MX F3 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 Cummins and others requiring an API CI-4 Plus service category diesel engine oil. Mobil Delvac MX F3 15W-40 also meets or exceeds the API SL specification for gasoline engines and mixed fleets.

The outstanding performance reserve of Mobil Delvac MX F3 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

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 protection Maintains 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: Cummins
- High performance gasoline engines and mixed fleet operators
- Diesel-powered equipment from Cummins
- On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture

#### Specifications and Approvals

**This product has the following approvals:**

RENAULT TRUCKS RLD-2

Mack EO-N

VOLVO VDS-3

Detroit Fluids Specification 93K214

MB-Approval 228.3

**This product meets or exceeds the requirements of:**

Cummins CES 20078

API CI-4 PLUS

Caterpillar ECF-2

#### Properties and Specifications

Property	
Grade	SAE 15W-40
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.2
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	104
Density @ 15 C, g/ml, ASTM D1298	0.874
Pour Point, °C, ASTM D5950	-39
Flash Point, Cleveland Open Cup, °C, ASTM D92	236
Total Base Number, mgKOH/g, ASTM D4739	10.2
Mini-Rotary Viscometer, Apparent Viscosity, -25 C, mPa.s, ASTM D4684	15500
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683	4.0

Property	
Cold-Cranking Simulator, Apparent Viscosity @ -20 C, mPa.s, ASTM D5293	5500

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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