



# Product Data Sheet

## Mobil Delvac MX 15W-40 Extra High Performance Diesel Engine Oil

### Product Description

Mobil Delvac MX 15W-40 is an extra high performance diesel engine oil that provides excellent lubrication of today's diesel engines operating in severe applications promoting extended engine life. As a result, this product meets or exceeds the specifications of virtually all major European and American engine manufacturers. This extra high performance has been proven in the field in a wide variety of industries, applications, and mixed fleets.

The advanced chemistry of this product provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines. Mobil Delvac MX 15W-40 combines a blend of high quality base stocks with a progressive additive system to provide superior control of oil thickening due to soot build up and high temperatures as well as outstanding resistance to oxidation, corrosion, and high temperature varnish deposits. The multigrade characteristics provide excellent cold cranking capabilities and oil pumpability at low temperatures.

### Features & Benefits

High output, low emission diesel engines significantly increase the demands on engine lubricants. Tighter engine designs reduce oil consumption, resulting in less fresh oil make-up to replenish depleted additives. Top piston fire 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. Increased fuel injector pressure and retarded timing improve fuel burn efficiency, but also increase engine temperatures and increase soot loads. Mobil Delvac MX 15W-40 is formulated from high performance base oils and a superior balanced additive system to provide optimum engine performance in modern diesel and gasoline engines as well as older models. The key benefits include:

Features	Advantages and Potential Benefits
High thermal and oxidation stability	Reduced sludge build-up, deposits and viscosity increase
TBN reserves	Deposit control and acid neutralisation
Stay-in-grade shear stability	Wear protection and viscosity control
Advanced detergency/dispersancy	
Improved soot handling	Improved viscosity control and used oil pumpability
Excellent low temperature properties	Start-up wear protection
Component compatibility	Longer gasket and seal life
Meets demanding specifications of key OEMs	One engine oil for mixed fleet operations

### Applications

- Naturally aspirated and turbo-charged diesel powered equipment from leading Japanese European and American manufacturers
- On-highway light and heavy duty trucking
- Off-highway industries including: construction, mining, quarrying and agriculture
- Mixed fleet applications

## Specifications & Approvals

Mobil Delvac MX 15W-40 meets the following industry specifications:

- ACEA E5/E3/B4/B3/A2
- API CI-4/CH-4/CG-4/CF-4/CF/SJ/SL

Mobil Delvac MX 15W-40 has the following builder approvals:

- Cummins CES 20078/77/76/75/72/71
- Daimler Chrysler MB 228.3/229.1
- Detroit Diesel DDC 7SE 270
- Mack EO-M Plus
- MAN M3275
- MTU Type 1
- Renault RVI RLD
- Volvo VDS-3, VDS-2

Mobil Delvac MX 15W-40 is also recommended for use in applications requiring:

- Allison C-4

## Typical Properties

SAE Grade		15W-40
Viscosity at 40°C, mm <sup>2</sup> /s	ASTM D 445	105
Viscosity at 100°C, mm <sup>2</sup> /s	ASTM D 445	14.2
Viscosity Index	ASTM D 2270	138
Sulphated Ash, wt%	ASTM D 874	1.1
Total Base Number, mg KOH/g	ASTM D 2896	10
Pour Point, °C	ASTM D 97	-33
Flash Point, °C	ASTM D 92	240
Density at 15°C, kg/l	ASTM D 4052	0.89

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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.

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## 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 Esso Petroleum Company, Ltd., by telephoning 01372 222000. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment.

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