



Mobil Delvac MX™ 15W-40

Mobil Commercial Vehicle Lube , Pakistan

Synthetic Technology Commercial Vehicle 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 promoting long engine life. As a result, this product meets or exceeds the specifications of major European and American engine manufacturers. It is recommended by ExxonMobil for use in a wide variety of industries, applications, and mixed fleets.

This product provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operating on low or high sulphur fuel. Mobil Delvac MX 15W-40 combines a blend of high performance 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 deposits.

Features and 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 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 |
| High detergency/dispersancy | Clean engines and long component life |
| Improved soot handling | Improved viscosity control and used oil pumpability |
| Excellent low temperature properties | Start-up wear protection |
| Component compatibility | Long gasket and seal life |
| Meets demanding specifications of key OEMs | One engine oil for mixed fleet operations |

Applications

Recommended by ExxonMobil for use in:

- 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 and Approvals

This product has the following approvals:

Detroit Fluids Specification 93K215

Mack EO-M Plus

Mack EO-N

MB-Approval 228.3

RENAULT TRUCKS RLD-2

VOLVO VDS-3

This product is recommended for use in applications requiring:

API CF

API CF-4

API CG-4

Cummins CES 20072

CUMMINS CES 20072

Mack EO-M

RENAULT TRUCKS RLD

VOLVO VDS-2

This product meets or exceeds the requirements of:

API CH-4

API CI-4

API SJ

API SL

JASO DH-1

ACEA E7

Caterpillar ECF-2

This product meets or exceeds the requirements of:

Cummins CES 20076

Cummins CES 20077

Cummins CES 20078

Properties and Specifications

| Property | |
|------------------------------------------------------------|------------|
| Grade | SAE 15W-40 |
| Pour Point, °C, ASTM D97 | -33 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 223 |
| Ash, Sulfated, mass%, ASTM D874 | 1.3 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 109 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 14.3 |
| Density @ 15 C, kg/m ³ , ASTM D4052 | 0.87 |
| Total Base Number, mgKOH/g, ASTM D2896 | 11 |
| Viscosity Index, ASTM D2270 | 133 |

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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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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