

Mobil Delvac MX Extra 15W-40

Extra High Performance Diesel Engine Oil

Product Description

Mobil Delvac MX Extra 15W-40 is an extra high performance diesel engine oil that helps extend engine life in the most severe on and off highway applications. The advanced chemistry of this product delivers exceptional performance in both modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR), as well as older engines operating on low or higher sulfur fuel. As a result, this product exceeds the API CI-4 Plus (15W-40) service categories and JASO DH-1 industry specifications.

Mobil Delvac MX Extra 15W-40 is recommended for use in a wide range of heavy duty applications and operating environments found in the trucking, mining, construction, quarrying, and agricultural industries. This product 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 Extra 15W-40 also meets the API SL specification for gasoline engines and mixed fleets.

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

Features and Benefits

Modern high output, low emission diesel engines generate higher levels of soot and run at higher temperatures than older, naturally aspirated engines, which significantly increase the demands on engine lubricants. Current 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 Exhaust Gas Recirculation (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 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 |
| Component compatibility | Longer gasket and seal life |
| Meets demanding specifications of key OEMs and latest API gasoline service category | One engine oil for mixed fleet operations |



Applications

- Recommended for use in high performance diesel applications including the latest 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
- Recommended for use in high performance gasoline engines and mixed fleet operators
- On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture
- Transmissions requiring Allison C-4

Specifications and Approvals

Mobil Delvac MX Extra 15W-40 Meets the following 15W-40 industry and builder specifications:

| | |
|--|---|
| API CI-4 Plus/CI-4/CH-4/CG-4/CF-4/CF/SL/SJ | X |
| ACEA E7/E5 | X |
| Cummins CES 20072/1 | X |
| Detroit Diesel 7SE 270 (4 stroke cycle) | X |
| Caterpillar CAT ECF-1 | X |
| Global DHD-1 | X |
| Ford WSS-M2C171-D | X |
| JASO DH-1 | X |

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

| | |
|--|---|
| Cummins CES 20078/7/6 | X |
| Mack EO-N Premium Plus 03, EO-M Plus | X |
| Volvo VDS-3 | X |
| Detroit Diesel DDC Power Guard Oil Spec 93K214 | X |

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

| | |
|---------------------------|---|
| ZF TE-ML 04C | X |
| MACK EO-M | X |
| Volvo VDS-2 | X |
| Daimler Chrysler MB 228.3 | X |

Typical Properties

Mobil Delvac MX Extra 15W-40

| | |
|------------------------------|--------|
| SAE Grade | 15W-40 |
| Viscosity, ASTM D 445 | |
| cSt @ 40°C | 123 |
| cSt @ 100°C | 15.6 |
| Viscosity Index, ASTM D 2270 | 135 |

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| | |
|-------------------------------------|-------|
| Sulfated Ash, wt%, ASTM D 874 | 1.3 |
| Total Base #, mg KOH/g, ASTM D 2896 | 12 |
| Pour Point, °C, ASTM D 97 | -30 |
| Flash Point, °C, ASTM D 92 | 230 |
| Density @ 15°C 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. MSDS's are available upon request through your sales contract 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.

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