



Mobil Delvac™ MX ESP

Mobil Commercial Vehicle Lube , Brazil

HIGH PERFORMANCE DIESEL ENGINE OIL

Product Description

Mobil Delvac™ MX ESP 15W-40 is an advanced diesel engine oil that helps extend engine life, allowing you to run your business with confidence. This product meets or exceeds original equipment manufacturer (OEM) requirements and delivers high performance in both on and off-highway applications.

Fully backward compatible, Mobil Delvac MX ESP delivers exceptional performance in both newer and older heavy duty engine designs. Accordingly, this oil meets or exceeds the requirements of API CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4 service categories, as well as key OEM requirements. Mobil Delvac MX ESP is universal, meaning it may also be used in gasoline engines requiring the API SN specification.

Mobil Delvac MX ESP is a tailored formulation that delivers excellent wear and engine protection, extended drain capability, outstanding high temperature performance and engine cleanliness. Developed in close collaboration with major OEMs, Mobil Delvac MX ESP is recommended for use in a wide range of heavy duty applications and operating environments in the trucking, mining, construction, agricultural and marine industries.

Features and Benefits

Mobil Delvac MX ESP is formulated with optimized base oil technology, containing hydro-processed base stocks and a tailored additive system to deliver extended performance for up to 50% beyond OEM-recommended oil drain intervals¹. This proprietary formulation delivers excellent wear protection, superior oxidation stability, and outstanding TBN retention. Mobil Delvac MX ESP also provides outstanding resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits.

The key benefits include:

| Features | Advantages and Potential Benefits |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Meets demanding specifications of key OEMs and latest API gasoline service category | One engine oil for mixed fleet operations |
| Superior oxidation stability | Extended ODI capability. Reduced low temperature sludge build-up and high temperature deposits |
| Excellent soot and viscosity control | Greater engine efficiency, long engine life and long oil life |
| Excellent oil consumption control | Lower oil costs due to less make-up oil during operation |
| Outstanding TBN reserves | Corrosion protection and extended drain intervals for both new and old engines using up to 500 ppm sulfur diesel fuel |
| Low temperature fluidity and pumpability | Formulated for smooth starting in cold weather |
| Resistance to corrosive and abrasive wear | Long life of critical wear surfaces |
| Component compatibility | Long gasket and seal life |
| Low ash formulation meeting API CK-4 and CJ-4 requirements | Long emissions aftertreatment life (DPF, DOC and SCR) |

¹ Results may vary based on vehicle/engine condition, driving and environmental conditions Consult OEM or ExxonMobil before implementing extended ODIs.

Applications

- Recommended for the latest heavy duty diesel engines, including those equipped with aftertreatment systems and EGR.
- Recommended for diesel applications using older and naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway applications including trucking, mining, construction, agriculture and marine.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery service.
- Off-highway applications operating in severe low speed/heavy load conditions using up to 500 ppm sulfur fuels.
- High performance gasoline engines requiring API SN and mixed fleet operations.

- Diesel-powered equipment from American, European and Japanese OEMs.

Specifications and Approvals

| Mobil Delvac MX ESP meets or exceeds the requirements of: | 15W-40 |
|-----------------------------------------------------------|--------|
| API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4 / SN | X |
| ACEA E9, E7 | X |
| Caterpillar ECF-3 | X |
| Cummins CES 20086, 20081 | X |
| Isuzu DEO (w/ DPD Equipped Vehicles) | X |
| JASO DH-2 | X |

| Mobil Delvac MX ESP is approved by the following OEMs: | 15W-40 |
|--------------------------------------------------------|--------|
| Allison TES 439 | X |
| Detroit Fluids Specification 93K222, 93K218 | X |
| Deutz DQC II-10 LA | X |
| Mack EOS-4.5, EO-O Premium Plus | X |
| MB-Approval 228.31 | X |
| Renault Trucks RLD-4, RLD-3 | X |
| MAN M 3575 | X |
| MAN M 3275-1 | X |
| Volvo VDS-4.5, VDS-4 | X |

Typical Properties

| Mobil Delvac MX ESP | |
|------------------------------------------|--------------|
| SAE Grade | 15W-40 |
| Viscosity, ASTM D 445 | |
| cSt @ 40°C | 109 |
| cSt @ 100°C | 14.1 |
| Viscosity Index, ASTM D 2270 | 130 |
| Density @ 15°C kg/L, ASTM D 4052 | 0.874 |
| Pour Point, °C, ASTM D 97 | -33 |
| Flash Point, °C, ASTM D 92 | 225 |
| Sulfated Ash, wt%, ASTM D 874 | 0.9 |
| Total Base Number, mg KOH/g, ASTM D 2896 | 9.8 |
| CCS, cP, ASTM D 5293 | 6600 @ -20C |
| MRV, cP, ASTM D 4684 | 17500 @ -25C |
| HTHS @ 150°C, cP, ASTM D4683 | 4.1 |

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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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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