



Mobil Delvac MX™ ESP 15W-40

Mobil Commercial-Vehicle-Lube , United Kingdom

Premium Synthetic Technology Commercial Vehicle Engine Oil

Product Description

Mobil Delvac MX™ ESP 15W-40 is an extra high performance diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible, Mobil Delvac MX ESP 15W-40 will also deliver the same exceptional performance in older conventional engines. As a result, it meets or exceeds the requirements of the API CK-4, CJ-4, CI-4 PLUS and CH-4 service categories as well as key Original Equipment Manufacturer (OEM) requirements.

Mobil Delvac MX ESP 15W-40 is the result of extensive cooperative development work with major OEMs and is recommended by ExxonMobil 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 provides outstanding protection in the most demanding diesel engines of Caterpillar, Cummins, Detroit, Deutz, Mack, Mercedes Benz, Renault, MAN, Navistar, Volvo, and others. Mobil Delvac MX ESP 15W-40 also meets or exceeds the requirements of the API SN / SM / SL specifications for gasoline engines and mixed fleets. Mobil Delvac MX ESP 15W-40 is biodiesel compatible.\*

\*Follow OEM recommendations on potential service adjustments

Features and Benefits

Mobil Delvac MX ESP 15W-40 is formulated and a mixed detergent system to deliver cutting-edge performance in both new and older engines. In addition to assuring excellent control of oil thickening due to soot build-up and outstanding TBN retention for long drain intervals, Mobil Delvac MX ESP 15W-40's advanced technology 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                                                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Superior soot-viscosity control                                                     | Helps to maintain engine efficiency, long engine life and long oil life                                          |
| Outstanding thermal and oxidative stability                                         | Helps to reduce low temperature sludge build-up and high temperature deposits                                    |
| Excellent oil consumption control                                                   | Helps to lower oil costs due to less make-up oil during operation                                                |
| Excellent TBN reserves                                                              | Helps to improve corrosion protection and to extend drain intervals                                              |
| Stay-in-grade shear stability                                                       | Helps to maintain viscosity in severe, high temperature service for greater wear protection and long engine life |
| Excellent low temperature pumpability                                               | Fast oil flow and helps to reduce wear during engine start-up in low temperatures                                |
| Superb resistance to corrosive and abrasive wear.                                   | Long life of critical wear surfaces                                                                              |
| Component compatibility                                                             | Long gasket, seal, and after treatment (DPF and DOC) life                                                        |
| Meets demanding specifications of key OEMs and latest API gasoline service category | One engine oil for mixed fleet operations                                                                        |

Applications

Recommended by ExxonMobil for use in:

- Heavy Duty Diesel Engines including Euro V/VI Modern Low Emissions Vehicles, Utilizing Technologies such as Diesel Particulate Filter (DPF), Selective Catalytic Reduction (SCR), Continuously Regenerating Traps (CRT), Diesel Oxidation Catalysts (DOC) and Exhaust Gas Recirculation (EGR)

- High-performance diesel applications including turbo-charged designs featuring EGR Technology and diesel applications using older, naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway including: construction, mining, quarrying, and agriculture.
- 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
- High performance gasoline engines and mixed fleet operations.
- Diesel-powered equipment from American, European and Japanese OEMs

Specifications and Approvals

| This product has the following approvals:   |
|---------------------------------------------|
| Detroit Detroit Fluids Specification 93K222 |
| Mack EO-N Premium Plus 03                   |
| MACK EOS-4.5                                |
| RENAULT TRUCKS RLD-3                        |
| VOLVO VDS-4.5                               |
| VOLVO VDS-3                                 |
| DTFR 15C100                                 |

| This product is recommended for use in applications requiring: |
|----------------------------------------------------------------|
| MANM 3575                                                      |
| API CG-4                                                       |
| API CF-4                                                       |
| API CF-2                                                       |
| API CF                                                         |
| VOLVOVDS-2                                                     |

| This product meets or exceeds the requirements of: |
|----------------------------------------------------|
| API CK-4                                           |
| API CJ-4                                           |
| API CI-4 PLUS                                      |
| API CI-4                                           |
| API CH-4                                           |
| API SN                                             |

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

API SM

API SL

CATERPILLAR ECF-3

ISUZU DEO (w/ DPD Equipped Vehicles)

ACEA E7

ACEA E11

JASO DH-2

**Properties and Specifications**

| Property                                                   |            |
|------------------------------------------------------------|------------|
| Grade                                                      | SAE 15W-40 |
| Ash, Sulfated, mass%, ASTM D874                            | 0.9        |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 225        |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 14.1       |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 109        |
| Pour Point, °C, ASTM D97                                   | -33        |
| Total Base Number, mgKOH/g, ASTM D2896                     | 9.8        |
| Viscosity Index, ASTM D2270                                | 130        |

**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](http://www.exxonmobil.com)

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