



Mobil Delvac MX™ ESP 15W-40

Mobil Commercial Vehicle Lube , New Caledonia

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 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 demanding diesel engines of Caterpillar, Cummins, Detroit, Mack, Mercedes Benz, Renault, MAN, Volvo, and others. Mobil Delvac MX ESP 15W-40 also meets or exceeds the requirements of the API SN / SM / SL specification for gasoline engines and mixed fleets.

Features and Benefits

Mobil Delvac MX ESP 15W-40 is formulated using Synthetic Technology and an optimised additive system that delivers excellent 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.<br><br>Up to 80% improved high-temperature viscosity control and 50% improved oxidation resistance <sup>1</sup> | 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.<br><br>Wear protection is 20% better <sup>2</sup>                                                          | Long life of critical wear surfaces                                                                              |
| Component compatibility                                                                                                                                      | Long gasket, seal, and after treatment (DPF and DOC) life                                                        |

| Features                                                                                                                                                                                                                                    | Advantages and Potential Benefits         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Meets demanding specifications of key OEMs and API gasoline service categories                                                                                                                                                              | One engine oil for mixed fleet operations |
| Footnotes:<br><br>1 Based on comparison of Volvo T-13 engine test results, compared to earlier API CJ-4 formulation<br><br>2 Based on comparison of Cummins ISM and Mack T-12 engine test results, compared to earlier API CJ-4 formulation |                                           |

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 |
| Detroit Fluids Specification 93K218         |
| Mack EO-N Premium Plus 03                   |
| Mack EO-O Premium Plus                      |
| MACK EOS-4.5                                |
| MB-Approval 228.31                          |
| RENAULT TRUCKS RLD-3                        |

|                                           |  |
|-------------------------------------------|--|
| This product has the following approvals: |  |
| VOLVO VDS-3                               |  |
| VOLVO VDS-4                               |  |
| VOLVO VDS-4.5                             |  |
| Cummins CES 20081                         |  |
| Cummins CES 20086                         |  |

|                                                                |  |
|----------------------------------------------------------------|--|
| This product is recommended for use in applications requiring: |  |
| API CF                                                         |  |
| API CF-2                                                       |  |
| API CF-4                                                       |  |
| API CG-4                                                       |  |
| MAN M 3575                                                     |  |
| VOLVO VDS-2                                                    |  |

|                                                    |  |
|----------------------------------------------------|--|
| This product meets or exceeds the requirements of: |  |
| API CH-4                                           |  |
| API CI-4                                           |  |
| API CI-4 PLUS                                      |  |
| API CJ-4                                           |  |
| API CK-4                                           |  |
| API SL                                             |  |
| API SM                                             |  |
| API SN                                             |  |
| JASO DH-2                                          |  |
| ACEA E7                                            |  |
| ACEA E9                                            |  |
| Caterpillar ECF-3                                  |  |

Properties and Specifications

|          |  |
|----------|--|
| Property |  |
|----------|--|

| Property                                      |            |
|-----------------------------------------------|------------|
| Grade                                         | SAE 15W-40 |
| Density @ 15 C, g/ml, ASTM D1298              | 0.875      |
| Ash, Sulfated, mass%, ASTM D874               | 0.9        |
| Viscosity Index, ASTM D2270                   | 130        |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 225        |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445  | 109        |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 14         |
| Total Base Number, mgKOH/g, ASTM D4739        | 9          |
| Pour Point, °C, ASTM D97                      | -33        |

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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