



## Mobil Delvac MX™ ESP 15W-40

Mobil Commercial Vehicle Lube, Singapore

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 After treatment 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 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, 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 specification for gasoline engines and mixed fleets.

### Features and Benefits

Mobil Delvac MX ESP 15W-40 is formulated using Synthetic Technology 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 Oxidation resistance is 50% better <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, up to 80% improved high-temperature viscosity control <sup>1</sup>	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. 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
Meets demanding specifications of key OEMs and latest API gasoline service category	One engine oil for mixed fleet operations

1: Based on comparison of Volvo T-13 engine test results, compared to earlier CJ-4 formulation

2: Based on comparison of Cummins ISM and Mack T-12 engine test results, compared to earlier 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

Mobil Delvac MX ESP 15W-40 Meets or Exceeds the requirements of the following industry and builder specifications:	
API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4 / SN, SM, SL	X
ACEA E7, E9	X
Caterpillar ECF-3	X
JASO DH-2	X
Cummins CES 20086/CES 20081	X
Isuzu DEO (w/ DPD Equipped Vehicles)	X

Mobil Delvac MX ESP 15W-40 has the following builder approvals:	
Detroit Fluids Specification 93K218 /93K222	X
Mack EO-N Premium Plus 03 / Mack EO-O Premium Plus	X
MAN M3575	X
Deutz DQC II-10 LA	X
MB-Approval 228.31	X
Volvo VDS-4.5 / VDS-4 / VDS-3 / VDS-2	X
Allison TES-439	X

Mobil Delvac MX ESP 15W-40 is recommended by ExxonMobil for use in applications requiring:	
API CG-4, CF-4, CF-2, CF	X
MAN M 3275-1	X

**Typical Properties**

Mobil Delvac MX ESP 15W-40	
SAE Grade	15W-40
Viscosity, ASTM D 445	
cSt @ 40°C	109
cSt @ 100°C	14
Viscosity Index, ASTM D 2270	130
Sulfated Ash, wt%, ASTM D 874	0.9
Total Base #, mg KOH/g, ASTM D 2896	9
Pour Point, °C, ASTM D 97	-33
Flash Point, °C, ASTM D 92	225
Density @ 15°C kg/l, ASTM D 4052	0.875

**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. MSDSs 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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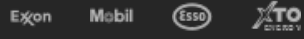
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. 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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