



Mobil Delvac MX™ ESP 15W-40

Mobil Commercial Vehicle Lube , Japan

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, 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 ¹	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 ¹	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 ²	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 Fluids Specification 93K218
Detroit Fluids Specification 93K214
Mack EO-N Premium Plus 03
Mack EO-O Premium Plus
RENAULT TRUCKS RLD-3
VOLVO VDS-4
VOLVO VDS-3
VOLVO VDS-4.5
Cummins CES 20081
Cummins CES 20086
DQC II-18 LA

This product is recommended for use in applications requiring:
Allison C-4
API CG-4
API CF-4
API CF-2
API CF
MAN M 3575

This product is recommended for use in applications requiring:

VOLVO VDS-2

This product meets or exceeds the requirements of:

API CJ-4

API CI-4 PLUS

API CI-4

API CH-4

API SM

API SL

Caterpillar ECF-3

ISUZU DEO (w/ DPD Equipped Vehicles)

ACEA E7

ACEA E11

JASO DH-2

API CK-4

API SN

Properties and Specifications

Property	
Grade	SAE 15W-40
Ash, Sulfated, mass%, ASTM D874	0.98
Flash Point, Cleveland Open Cup, °C, ASTM D92	236
Hi-Temp Hi-Shear Viscosity @ 150 C $1 \times 10^6 \text{ sec}^{-1}$, mPa.s, ASTM D4683	4.3
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	15
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	114
Pour Point, °C, ASTM D97	-30
Total Base Number, mgKOH/g, ASTM D2896	10.4
Viscosity Index, ASTM D2270	137

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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ExxonMobil Japan Godo Kaisha

Shinagawa Grand Central Tower

2-16-4, Konan, Minato-Ku,

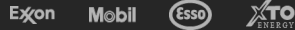
Tokyo, 108-8218,

Japan

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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