



Mobil Delvac Modern™ 10W-40 Full Protection

Mobil Commercial Vehicle Lube , South Korea

Fully Synthetic

Product Description

Mobil Delvac Modern™ 10W-40 Full Protection is an extra high performance fully synthetic 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 Modern 10W-40 Full Protection will also deliver the same exceptional performance in older conventional engines. It meets or exceeds the requirements of the API CK-4, CJ-4 service categories as well as key Original Equipment Manufacturer (OEM) requirements.

Features and Benefits

Mobil Delvac Modern 10W-40 Full Protection 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 Modern 10W-40 Full Protection'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

Applications

Recommended by ExxonMobil for use in:

- Heavy Duty Diesel Engines including Euro V/VI and China V/VI(1) 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

(1) For detailed lubes requirement and application, please refer to the vehicle service manual

Specifications and Approvals

This product has the following approvals:
Cummins CES 20081
Cummins CES 20086
VOLVO VDS-4.5
RENAULT TRUCKS RLD-3
MACK EOS-4.5
Detroit Fluids Specification 93K218
Detroit Detroit Fluids Specification 93K222
MAN M 3775
Ford WSS-M2C171-F1
DTFR 15C100

This product is recommended for use in applications requiring:
MAN M 3575

This product meets or exceeds the requirements of:
API CK-4
API CJ-4
ACEA E7
Caterpillar ECF-3
ACEA E11

Properties and Specifications

Property	
Grade	SAE 10W-40
Ash, Sulfated, mass%, ASTM D874	0.69

Property	
Density @ 15 C, g/ml, ASTM D1298	0.8628
Flash Point, Cleveland Open Cup, °C, ASTM D92	220
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	14.11
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	92.14
Pour Point, °C, ASTM D97	-30
Total Base Number, mgKOH/g, ASTM D2896	10
Viscosity Index, ASTM D2270	158

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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Mobil Korea Lube Oil Inc.

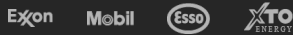
Level 22, Seoul Square bd., Hangang-daero, Jung-gu, Seoul, Korea

+82-2-750-8700

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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