Mobil Delvac Modern™ 15W-40 Full Protection

Mobil Commercial Vehicle Lube , Hungary

High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern™ 15W-40 Full Protection is a synthetic technology 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 Modern™ 15W-40 Full Protection 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 Modern™ 15W-40 Full Protection 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 Modern™ 15W-40 Full Protection also meets or exceeds the requirements of the API SN / SM / SL specifications for gasoline engines and mixed fleets. Mobil Delvac Modern™ 15W-40 Full Protection is biodiesel compatible.*

*Follow OEM recommendations on potential service adjustments

Features and Benefits

Mobil Delvac Modern™ 15W-40 Full Protection is a synthetic technology formulated by 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™ 15W-40 Full Protection's advanced Synthetic 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
Detroit Fluids Specification 93K218
DQC II-18 LA
Mack EO-N Premium Plus 03
Mack EO-O Premium Plus
MACK EOS-4.5
MB-Approval 228.31
VOLVO VDS-3
VOLVO VDS-4
VOLVO VDS-4.5

This product is recommended for use in applications requiring:
API CF
API CF-2
API CF-4
API CG-4
MAN M 3275-1

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

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
API SP
JASO DH-2
ACEA E7
ACEA E9
Caterpillar ECF-3
Cummins CES 20081
Cummins CES 20086

Properties and Specifications

Property	
Grade	SAE 15W-40
Total Base Number, mgKOH/g, ASTM D2896	9.8
Ash, Sulfated, mass%, ASTM D874	0.9
Pour Point, °C, ASTM D97	-33
Viscosity Index, ASTM D2270	130
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.1
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	109

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

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