



Mobil Delvac Modern™ 15W-40 Full Protection

Mobil Commercial Vehicle Lube , 中国

Synthetic Technology

Product Description

Mobil Delvac Modern 15W-40 Full Protection 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 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, Mack, Mercedes Benz, Renault, MAN, 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.

Features and Benefits

Mobil Delvac Modern 15W-40 Full Protection is formulated with optimised additive system to deliver 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 Modern 15W-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
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
MB-Approval 228.31
VOLVO VDS-4
VOLVO VDS-4.5
Mack EO-O Premium Plus
VOLVO VDS-3
MACK EOS-4.5
Mack EO-N Premium Plus 03
RENAULT TRUCKS RLD-3

This product is recommended for use in applications requiring:
MAN M 3575
MAN M 3275-1

This product meets or exceeds the requirements of:
API CH-4
API CI-4
API CI-4 PLUS
API CJ-4

This product meets or exceeds the requirements of:
API CK-4
API SL
API SM
ACEA E7
API SN
JASO DH-2
Caterpillar ECF-3
Cummins CES 20081
Cummins CES 20086
ACEA E11

Properties and Specifications

Property	
Grade	SAE 15W-40
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	14
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	109
Total Base Number, mgKOH/g, ASTM D4739	9
Pour Point, °C, ASTM D97	-33
Density @ 15 C, g/ml, ASTM D1298	0.875
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Viscosity Index, ASTM D2270	130
Ash, Sulfated, mass%, ASTM D874	0.9

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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