Mobil

Mobil Delvac Modern™ 15W-40 Complete Protection

Mobil Commercial Vehicle Lube , Hong Kong

Synthetic Technology

Product Description

Mobil Delvac Modern 15W-40 Complete Protection is an extra high performance synthetic technology 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 Complete Protection will also deliver the same exceptional performance in older conventional engines. As a result, it meets or exceeds the requirements of API CK-4, API CJ-4, API CI-4 PLUS, API CI-4 and API CH-4 service categories as well as key Original Equipment Manufacturer (OEM) requirements.

Mobil Delvac Modern 15W-40 Complete 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, Renault, Volvo.

Features and Benefits

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 engine oil cost 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 operating conditions for greater wear protection and longer engine life
Excellent low temperature pumpability	Fast oil flow and helps to reduce wear during engine start-up in low temperatures

Applications

Recommended by ExxonMobil for use in:

• Modern Low Emissions heavy duty diesel, 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

• Diesel-powered equipment from global OEMs

Specifications and Approvals

This product has the following approvals:
Detroit Detroit Fluids Specification 93K222
Detroit Fluids Specification 93K218
Ford WSS-M2C171-F1
MTU Oil Category 2.1
RENAULT TRUCKS RLD-3
VOLVO VDS-4.5
MACK EOS-4.5
Cummins CES 20081
Cummins CES 20086

This product meets or exceeds the requirements of:
API CH-4
Caterpillar ECF-3
API CI-4 PLUS
API CJ-4
API CI-4
API CK-4

Properties and Specifications

Property	
Grade	SAE 15W-40
Pour Point, °C, ASTM D97	-33
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683	4
Ash, Sulfated, mass%, ASTM D874	0.9
Total Base Number, mgKOH/g, ASTM D2896	9.4
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	109

Property	
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14

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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