



Mobil Delvac Modern 15W-40 Extreme Defense

Mobil Commercial Vehicle Lube , Peru

High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern 15W-40 Extreme Defense is a high performance diesel engine oil that helps extend engine life in severe on and off highway applications. The advanced chemistry of these products delivers exceptional performance in both modern, high-output engines including those with Exhaust Gas Recirculation (EGR), as well as older engines operating on either low or high sulfur fuels. As a result, Mobil Delvac Modern 15W-40 Extreme Defense meets or exceeds the API CI-4 PLUS service category.

Mobil Delvac Modern 15W-40 Extreme Defense is recommended by ExxonMobil for use in a wide range of heavy duty applications and operating environments found in the trucking, mining, construction, quarrying, marine and agricultural industries. Mobil Delvac Modern 15W-40 Extreme Defense also meets or exceeds the API SL specification for gasoline engines and mixed fleets.

The outstanding performance reserve of Mobil Delvac Modern 15W-40 Extreme Defense is the result of extensive cooperative development work with major Original Equipment Manufacturers (OEMs) and advanced additive chemistry with patented Trimer technology. These enhancements assure excellent control of oil thickening due to soot build-up and exposure to higher temperatures and provide outstanding resistance to oxidation, corrosion, wear, and high temperature deposits.

Features and Benefits

Mobil Delvac Modern 15W-40 Extreme Defense is formulated with optimized base oil to deliver up to an average of 50% more viscosity control

1 Based on Sequence IIIF test against API CI-4 PLUS standard.

Features	Advantages and Potential Benefits
Provides up to an average of 40% more wear protection ² 2. Based on RFWT test against API CI-4 PLUS standard	Longer engine life.
Outstanding thermal and oxidation stability	Reduced low temperature sludge build-up and high temperature deposits.
Extended TBN reserves	Improved soot handling and extended drain intervals.
Stay-in-grade shear stability	Reduced oil consumption and improve wear protection. Maintains viscosity in severe, high temperature service.
Excellent low temperature pumpability	Easier engine start-up and reduced wear.
Superb resistance to corrosion	Longer life of critical wear surfaces.

Applications

- High performance diesel applications including pre-2007 turbo-charged, low emission engines designs, including those featuring EGR technology
- 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
- Modern marine high-speed diesel engines, including Caterpillar, Cummins, Volvo, Daihatsu, and Yanmar.

- High performance gasoline engines and mixed fleet operators.
- Diesel-powered equipment from American and Japanese OEMs
- On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture

Specifications and Approvals

This product has the following approvals:
Detroit Fluids Specification 93K214
Mack EO-M Plus
Mack EO-N
Mack EO-N Premium Plus
RENAULT TRUCKS RLD-2
VOLVO VDS-3
Cummins CES 20077
Cummins CES 20078

This product meets or exceeds the requirements of:
API CH-4
API CI-4
API CI-4 PLUS
API SJ
API SL
Caterpillar ECF-2
Cummins CES 20076

Properties and Specifications

Property	
Grade	SAE 15W-40
Pour Point, °C, ASTM D97	-36
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	110.4
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	15.3
Flash Point, Cleveland Open Cup, °C, ASTM D92	223

Property	
Density @ 15 C, kg/l, ASTM D4052	0.87
Flash Point, °C, ASTM D92	215

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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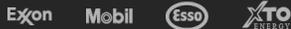
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. 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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