



## Mobil Delvac Modern 15W-40 Extreme Defense

Mobil Commercial Vehicle Lube , Australia

Synthetic Technology Extra High Performance Diesel Engine Oil

### Product Description

Mobil Delvac Modern 15W-40 Extreme Defense is an extra 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 formulating with high performance basestocks and additives. This assures excellent control of oil thickening due to soot build-up and exposure to higher temperatures and provides outstanding resistance to oxidation, corrosion, wear, and high temperature deposits.

### Features and Benefits

High output, low emission diesel engines significantly increase the demands on engine lubricants. Tighter engine designs reduce oil consumption, resulting in less fresh oil make-up to replenish depleted additives. Top piston fire rings are located higher on the piston bringing the oil film closer to the combustion chamber where higher temperatures increase thermal stress on the lubricant. Increased fuel injector pressure and retarded timing improve fuel burn efficiency, but also increase engine temperatures and increase soot loads. Mobil Delvac Modern 15W-40 Extreme Defense is formulated using high performance base oils and a balanced additive system to provide optimum engine performance in modern diesel and gasoline engines as well as older models. The key benefits include:

Features	Advantages and Potential Benefits
Outstanding thermal and oxidation stability	Reduced low temperature sludge build-up and high temperature deposits
TBN reserves	Improved soot handling and extended drain interval potential
Stay-in-grade shear stability	Reduced oil consumption and wear protection Maintains viscosity in severe, high temperature service
Excellent low temperature pumpability	Ease of engine start-up and reduced wear
Superb resistance to corrosion	Long life of critical wear surfaces

### Applications

Recommended by ExxonMobil for use in:

- High performance diesel applications including 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
- High performance gasoline engines and mixed fleet operators.
- On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture

**Specifications and Approvals**

<b>This product has the following approvals:</b>
Detroit Fluids Specification 93K214
Mack EO-M Plus
Mack EO-N
Mack EO-N Premium Plus
MB-Approval 228.3
RENAULT TRUCKS RLD-2
VOLVO VDS-3

<b>This product meets or exceeds the requirements of:</b>
API CH-4
API CI-4
API CI-4 PLUS
API SL
API SJ
Caterpillar ECF-2
Cummins CES 20076
Cummins CES 20077
Cummins CES 20078

**Properties and Specifications**

<b>Property</b>	
Grade	SAE 15W-40
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	15.3
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	110
Pour Point, °C, ASTM D97	-36
Total Base Number, mgKOH/g, ASTM D2896	11
Viscosity Index, ASTM D2270	145
Flash Point, Cleveland Open Cup, °C, ASTM D92	223

Property	
Density @ 15 C, kg/l, ASTM D4052	0.87
Ash, Sulfated, mass%, ASTM D874	1.3

### 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](http://www.exxonmobil.com)

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