



## Mobil Delvac Modern™ 15W-40 Super Defense

Mobil Commercial Vehicle Lube , French Polynesia

Mobil commercial-vehicle-lube

### Product Description

Mobil Delvac Modern 15W-40 Super Defense is an extra high performance diesel engine oil that provides excellent lubrication of today's diesel engines promoting long engine life. As a result, this product meets or exceeds the specifications of major European and American engine manufacturers. It is recommended by ExxonMobil for use in a wide variety of industries, applications, and mixed fleets.

This product provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operating on low or high sulphur fuel. Mobil Delvac Modern 15W-40 Super Defense is also biodiesel compatible\*, it combines a blend of high performance base stocks with a progressive additive system to provide superior control of oil thickening due to soot build-up and high temperatures as well as outstanding resistance to oxidation, corrosion, and high temperature deposits.

This product is fully compatible with Mobil Delvac MX 15w-40 and can be used as a replacement of same

\*based on CEC L-109-14 (test modified with palm B100), meeting the limits in ACEA E7-16.

### 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 Super Defense is formulated from 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                        |
|--|--|
| High thermal and oxidation stability       | Reduced sludge build-up, deposits and viscosity increase |
| TBN reserves                               | Deposit control and acid neutralisation                  |
| Stay-in-grade shear stability              | Wear protection and viscosity control                    |
| High detergency/dispersancy                | Clean engines and long component life                    |
| Improved soot handling                     | Improved viscosity control and used oil pumpability      |
| Excellent low temperature properties       | Start-up wear protection                                 |
| Component compatibility                    | Long gasket and seal life                                |
| Meets demanding specifications of key OEMs | One engine oil for mixed fleet operations                |

**Applications**

Recommended by ExxonMobil for use in:

- Naturally aspirated and turbo-charged diesel powered equipment from leading Japanese, European, and American manufacturers.
- On-highway light and heavy-duty trucking.
- Off-highway industries including: construction, mining, quarrying, and agriculture.
- Mixed fleet applications.

**Specifications and Approvals****This product has the following approvals:**

Detroit Fluids Specification 93K215

Mack EO-M Plus

Mack EO-N

MB-Approval 228.3

RENAULT TRUCKS RLD-2

VOLVO VDS-3

Cummins CES 20077

Cummins CES 20078

**This product is recommended for use in applications requiring:**

API CF

API CF-4

API CG-4

Cummins CES 20071

Cummins CES 20072

Mack EO-M

RENAULT TRUCKS RLD

VOLVO VDS-2

**This product meets or exceeds the requirements of:**

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API CH-4

API CI-4

API SJ

API SL

JASO DH-1

Caterpillar ECF-2

ACEA E7

Cummins CES 20076

**Properties and Specifications**

| Property   |            |
|--|------------|
| Grade  | SAE 15W-40 |
| Ash, Sulfated, mass%, ASTM D874                            | 1.3        |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 223        |
| Pour Point, °C, ASTM D97                                   | -33        |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 109        |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 14.3       |
| Total Base Number, mgKOH/g, ASTM D2896                     | 11         |
| Density @ 15 C, kg/m <sup>3</sup> , ASTM D4052             | 0.87       |
| Viscosity Index, ASTM D2270                                | 133        |

**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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