



Mobil Delvac Modern™ 15W-40 Super Defense V4

Mobil Commercial Vehicle Lube , Hungary

High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern 15W-40 Super Defense V4 is a high performance synthetic technology 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 requirements of virtually all major European and American engine manufacturers. The chemistry of this product provides excellent 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 V4 combines a blend of high performance base stocks with a balanced additive system to provide excellent control of oil thickening due to soot build-up and high temperatures as well as excellent resistance to oxidation, corrosion, and high temperature deposits

Features and Benefits

High output, low emission engines significantly increase demands on engine lubricants. Tighter engine design, use of inter-coolers, and turbochargers increase thermal stresses on the lubricant. Low emission engine technologies such as higher fuel injection pressure and retarded timing require improved oil performance in areas such as oxidation stability, soot dispersancy, and volatility. Mobil Delvac Modern 15W-40 Super Defense V4 is formulated from high performance base oils and a balanced additive system to contribute to optimum engine performance in modern diesel and gasoline engines as well as older models. The key potential benefits include:

| Features | Advantages and Potential Benefits |
|--------------------------------------|---|
| High thermal and oxidation stability | Long oil life and cleaner engines |
| TBN reserves | Deposit control and acid neutralization |
| Stay-in-grade shear stability | Wear protection and viscosity control |
| Advanced detergency/dispersancy | Cleaner engines and longer component life |
| Improved soot handling | Improved viscosity control and used oil pumpability |

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 |
| DTFR 15B110 |

This product has the following approvals:

RENAULT TRUCKS RLD-2

Mack EO-N

Mack EO-M Plus

VOLVO VDS-3

Cummins CES 20076

Cummins CES 20077

This product is recommended for use in applications requiring:

API CF

ACEA B2

API CF-4

VOLVO VDS-2

API CG-4

Mack EO-M

RENAULT TRUCKS RLD

MAN M 3275-1

Cummins CES 20071

Cummins CES 20072

This product meets or exceeds the requirements of:

ACEA E7

API SL

API SJ

MTU Oil Category 2

Ford WSS-M2C171-D

Caterpillar ECF-2

API CH-4

API CI-4

| Property | |
|--|------------|
| Grade | SAE 15W-40 |
| Pour Point, °C, ASTM D97 | -36 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 225 |
| Ash, Sulfated, mass%, ASTM D874 | 1.1 |
| Cold-Cranking Simulator, Apparent Viscosity @ -20 C, mPa.s, ASTM D5293 | 5800 |
| Density @ 15 C, kg/l, ASTM D4052 | 0.869 |
| Viscosity Index, ASTM D2270 | 136 |
| Total Base Number, mgKOH/g, ASTM D2896 | 9.2 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 14.6 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 110 |

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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