Mobil

Mobil Delvac Modern™ 15W-40 Super Defense V4

Mobil Commercial Vehicle Lube , Norway

High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern15W-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

Properties and Specifications

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, mm2/s, ASTM D445	14.6
Kinematic Viscosity @ 40 C, mm2/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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