



Mobil Delvac Modern 15W-40 Super Defense

Mobil Commercial Vehicle Lube , India

Synthetic Technology Extra High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern 15W-40 Super Defense is an extra high performance diesel engine oil that provides excellent wear protection to modern diesel engines promoting long engine life. This product meets or exceeds the specifications of major European, Japanese and American engine manufacturers.

This product provides outstanding performance in both modern, demanding low-emission diesel engines as well as older diesel engines. Mobil Delvac Modern 15W-40 Super Defense combines high performance base stocks with a progressive additive system to provide control of oil thickening and high temperature deposits to provide excellent engine performance.

Features and Benefits

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

This product has the following approvals:

Mack EO-N

MB-Approval 228.3

MTU Oil Category 2

RENAULT TRUCKS RLD-2

VOLVO VDS-3

This product is recommended for use in applications requiring:

RENAULT TRUCKS RLD

VOLVO VDS-2

API CF-4

API CG-4

Cummins CES 20072

MACK EO-M

Cummins CES 20071

This product meets or exceeds the requirements of:

API CH-4

API CI-4

API SJ

ACEA E7

API SL

Caterpillar ECF-2

Cummins CES 20076

Cummins CES 20077

Properties and Specifications

Property	
Grade	SAE 15W-40
Cold-Cranking Simulator, Apparent Viscosity @ -20 C, mPa.s, ASTM D5293	5800

Property	
Ash, Sulfated, mass%, ASTM D874	1.1
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Pour Point, °C, ASTM D97	-36
Total Base Number, mgKOH/g, ASTM D4739	9.2
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	110
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	14.6
Viscosity Index, ASTM D2270	136
Density @ 15 C, kg/m ³ , ASTM D4052	0.87

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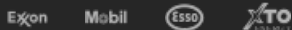
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations.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