MOBIL DELVAC MODERN™ 15W-40 SUPER DEFENSE V3

Mobil Commercial Vehicle Lube , Peru

Product Description

MOBIL DELVAC MODERN 15W-40 SUPER DEFENSE V3 is an extra high performance diesel engine oil that provides excellent lubrication of today's diesel engines promoting extended engine life. As a result, this product meets or exceeds the specifications of virtually all major European and American engine manufacturers. This extra high performance has been proven in the field in a wide variety of industries, applications, and mixed fleets.
The advanced chemistry of 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 V3 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.

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 V3 is formulated from high performance base oils and a superior 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
Advanced detergency/dispersancy	Cleaner engines and longer component life
Improved soot handling	Improved viscosity control and used oil pumpability
Excellent low temperature properties	Start-up wear protection
Component compatibility.	Longer 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:
MACK EO-M PLUS
Mack EO-N
VOLVO VDS-3
RENAULT TRUCKS RLD-2
Cummins CES 20077

This product has the following approvals:
Cummins CES 20078
DTFR 15B110
Cummins CES 20076
MTU Oil Category 2

This product is recommended for use in applications requiring:
ACEA A2-96 Issue 3
ACEA B2
API CF
API CF-4
API CG-4
Cummins CES 20071
Cummins CES 20072
Mack EO-M
MAN M 3275-1
RENAULT TRUCKS RLD
VOLVO VDS-2

This product meets or exceeds the requirements of:
API CH-4
API CI-4
API SJ
API SL
JASO DH-1
Caterpillar ECF-2
ACEA E7

Properties and Specifications

Property	
Grade	SAE 15W-40
Pour Point, °C, ASTM D97	-33
Total Base Number, mgKOH/g, ASTM D2896	11.5
Ash, Sulfated, mass%, ASTM D874	1.3
Flash Point, Cleveland Open Cup, °C, ASTM D92	225
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	106
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.4
Viscosity Index, ASTM D2270	137

Property	
Density @ 15.6 C, kg/l, ASTM D4052	0.88

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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