MOBIL DELVAC MODERN™ 10W-40 SUPER DEFENSE V1

Mobil Commercial Vehicle Lube , Serbia

Extra High Performance Diesel Engine Oil.

Product Description

Mobil Delvac Modern 10W-40 Super Defense V1 is an advanced synthetic technology extra high performance diesel engine oil engineered to provide outstanding lubrication to modern, high performance diesel engines used in severe on and off-highway applications. This diesel engine oil is designed using high performance base oils which provide excellent low temperature fluidity, high temperature viscosity retention, volatility control, and fuel economy improvement. These base oils are enhanced with an advanced additive system, which provides a high level of protection to all parts of the engine. Mobil Delvac Modern 10W-40 Super Defense V1 is engineered to provide long oil drain intervals in modern diesel engines.

Features and Benefits

High output, low emission engines significantly increased demands on engine lubricants. Tighter engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Thermal stresses on the lubricant are increased with the use of inter-coolers and turbochargers. Higher fuel injection pressure and retarded timing improve burn efficiency, but also increase engine temperatures, volatility, and soot loading of the oil. The advanced technology in Mobil Delvac Modern 10W-40 Super Defense V1 delivers exceptional performance in both modern diesel engines as well as older models. The key benefits include:

Features	Advantages and Potential Benefits
Outstanding protection against oil thickening, high temperature deposits, sludge build-up, oil degradation and corrosion.	Reduced wear and long engine life. Outstanding control of high temperature deposits
Reduced engine scuffing and bore polishing protection	Excellent protection against ring sticking
Extended TBN reserve	Long-term deposit/wear control. Extended oil drain potential.
Excellent low temperature properties	Improved pumpability and oil circulation. Start-up wear protection.
Stay-in-grade shear stability. Low volatility.	Helps to reduces viscosity breakdown and oil consumption under heavy duty, high temperature operating conditions.
Excellent Viscosity Index	Wide range of engine and temperature applications

Applications

Recommended by ExxonMobil for use in:

- Naturally aspirated and turbo-charged diesel powered engines built by European and Japanese manufacturers.
- On-highway light and heavy-duty trucking.
- Off-highway industries including: construction, mining, quarrying, and agriculture.

Specifications and Approvals

This product has the following approvals:
Mack EO-M Plus
MACK EO-N
RENAULT TRUCKS RLD-2
VOLVO VDS-3
MAN M 3277
MTU Oil Category 3
DTFR 15B120

This product is recommended for use in applications requiring:
API CF
RENAULT TRUCKS RLD
VOLVO VDS-2
Cummins CES 20072

This product meets or exceeds the requirements of:
API CH-4
ACEA E7
ACEA E4
RENAULT TRUCKS RXD
Scania LDF-3
API CI-4

Properties and Specifications

Property	
Grade	SAE 10W-40
Density @ 15.6 C, kg/l, ASTM D4052	0.868
Ash, Sulfated, mass%, ASTM D874	1.6
Flash Point, Cleveland Open Cup, °C, ASTM D92	244
Viscosity Index, ASTM D2270	154

Property	
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	98
Total Base Number, mgKOH/g, ASTM D2896	15.3
Pour Point, °C, ASTM D97	-42
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.6

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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