



MOBIL DELVAC MODERN™ 10W-40 SUPER DEFENSE V1

Mobil Commercial Vehicle Lube , Brazil

Mobil commercial-vehicle-lube

Product Description

Mobil Delvac Modern™ 10W-40 Super Defense V1 is a synthetic extra high performance diesel engine oil engineered to provide outstanding lubrication to modern 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 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 required to replenish depleted additives. Thermal stresses on the lubricant are increased with the use of inter-coolers and turbochargers. Higher fuel injection pressure 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 and Low volatility | Helps to reduce viscosity breakdown and oil consumption under heavy 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

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| This product has the following approvals: |
| Mack EO-M Plus |

This product has the following approvals:

Mack EO-N

MAN M 3277

MB-Approval 228.5

MB-Approval 235.27

MTU Oil Category 3

RENAULT TRUCKS RLD-2

VOITH RETARDER Oil Class A

VOLVO VDS-3

This product is recommended for use in applications requiring:

API CF

Cummins CES 20072

RENAULT TRUCKS RLD

VOLVO VDS-2

This product meets or exceeds the requirements of:

API CH-4

API CI-4

ACEA E4

ACEA E7

RENAULT TRUCKS RXD

Scania LDF-3

Properties and Specifications

| Property | |
|---|------------|
| Grade | SAE 10W-40 |
| Pour Point, °C, ASTM D97 | -42 |
| Total Base Number, mgKOH/g, ASTM D2896 | 15.3 |
| Ash, Sulfated, mass%, ASTM D874 | 1.6 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 244 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 98 |

| Property | |
|--|-------|
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 14.6 |
| Viscosity Index, ASTM D2270 | 154 |
| Density @ 15.6 C, ASTM D4052 | 0.868 |

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.as>

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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 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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