



## Mobil Delvac Modern™ 10W-40 Extended Protection Plus

Mobil Commercial Vehicle Lube , Chile

Advanced Synthetic Diesel Engine Oil

### Product Description

Mobil Delvac Modern™ 10W-40 Extended Protection Plus is an advanced synthetic, extra high performance diesel engine oil engineered to provide lubrication to modern, high performance, low emissions engines used in severe applications. This engine oil is designed using high performance base oils which provide excellent low temperature fluidity, high temperature viscosity retention and volatility control. The new advanced additive system has been expertly engineered to help towards long engine life (1) and maintain the efficiency of emission reduction systems including the Diesel Particulate Filter (DPF). Its specifications and approvals allow Mobil Delvac Modern™ 10W-40 Extended Protection Plus to target mixed fleet applications. Mobil Delvac Modern™ 10W-40 Extended Protection Plus is biodiesel compatible (2).

(1) Well formulated oils, like Mobil Delvac, that meet or exceed industry or OEM specifications, can help protect engines. Consult OEM for optimum fluid selection. Actual results may vary depending on OEM requirements, type of engine and its maintenance, application and service conditions, and prior lubricant used.

(2) Follow OEM recommendations on potential service adjustments.

### 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, retarded timing and after treatment devices all require improved oil performance in areas such as oxidation stability, soot dispersancy, volatility and compatibility with after treatment devices.

The advanced technology in Mobil Delvac Modern™ 10W-40 Extended Protection Plus delivers exceptional performance, long drain interval capability and protection of exhaust systems including those fitted with Diesel Particulate Filters (DPF).

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Features	Advantages and Potential Benefits
Outstanding protection against oil thickening, high temperature deposits, sludge build-up and, oil degradation.	Provides capability for long drain intervals. Helps to protect against ring sticking
Excellent anti-wear, anti-scuff properties and bore polishing and corrosion protection.	Helps towards long engine life
Stay-in-grade shear stability. Very low volatility	Helps to reduce viscosity breakdown and oil consumption under heavy duty, high temperature operating conditions
Low ash, sulfur and phosphorous levels	Helps to protect exhaust systems devices like those fitted with DPF
Excellent low temperature properties	Helps to improve pumpability and oil circulation Helps to achieve environmental benefits

### Applications

- Heavy Duty Diesel Engines including Euro V/VI Modern Low Emissions Vehicles, Utilizing Technologies such as Diesel Particulate Filter (DPF), Selective Catalytic Reduction (SCR), Continuously Regenerating Traps (CRT), Diesel Oxidation Catalysts (DOC) and Exhaust Gas Recirculation (EGR)
- Heavy Duty Diesel Engines using low sulfur diesel fuels and many biodiesel fuel formulations
- Naturally Aspirated and Turbo-Charged Diesel Powered Equipment
- On-Highway Short-Haul and Long-Haul Trucks and Buses
- Off-Highway Mining, Construction and Agricultural Equipment

Please refer to the owners handbook for OEM application requirements and oil drain intervals for your vehicle or equipment.

### Specifications and Approvals

<b>This product has the following approvals:</b>
Mack EO-O Premium Plus
MACK EOS-4.5
RENAULT TRUCKS RLD-2
RENAULT TRUCKS RLD-3
VOLVO VDS-3
VOLVO VDS-4
VOLVO VDS-4.5
DTFR 15C110
DTFR 15C100
MTU Oil Category 3.1
MAN M 3775
DEUTZ DQC IV-18 LA
Cummins CES 20081
Cummins CES 20086

<b>This product is recommended for use in applications requiring:</b>
Scania Low Ash
MAN M 3477

**This product is recommended for use in applications requiring:**

MAN M 3575

**This product meets or exceeds the requirements of:**

API CJ-4

API CK-4

ACEA E4

ACEA E7

ACEA E9

Caterpillar ECF-3

JASO DH-2

**Properties and Specifications**

Property	
Grade	SAE 10W-40
Total Base Number, mgKOH/g, ASTM D2896	13.2
Density @ 15.6 C, kg/l, ASTM D4052	0.86
Flash Point, Cleveland Open Cup, °C, ASTM D92	232
Ash, Sulfated, mass%, ASTM D874	0.96
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	91
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	13.7
Viscosity Index, ASTM D2270	153

**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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