



Mobil Delvac Modern™ 10W-40 Advanced Protection

Mobil Commercial Vehicle Lube , Botswana

Extra High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern 10W-40 Advanced Protection is an advanced synthetic technology, 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 and maintain the efficiency of emission reduction systems including the Diesel Particulate Filter (DPF). Its specifications and approvals allow Mobil Delvac Modern 10W-40 Advanced Protection to target mixed fleet applications. Mobil Delvac Modern 10W-40 Advanced Protection is biodiesel compatible(2).

(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 aftertreatment devices all require improved oil performance in areas such as oxidation stability, soot dispersancy, volatility and compatibility with aftertreatment devices. The advanced technology in Mobil Delvac Modern 10W-40 Advanced Protection delivers exceptional performance, long drain interval capability and protection of exhaust systems including those fitted with Diesel Particulate Filters (DPF). The key benefits include:

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.

| 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 |
| Bio Diesel compatible | 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

| This product has the following approvals: |
|--|
| DQC IV-18 LA |
| Mack EO-O Premium Plus |
| MACK EOS-4.5 |
| MAN M 3775 |
| MB-Approval 228.31 |
| MB-Approval 228.51 |
| MTU Oil Category 3.1 |
| RENAULT TRUCKS RLD-2 |
| RENAULT TRUCKS RLD-3 |
| VOLVO VDS-3 |
| VOLVO VDS-4 |
| VOLVO VDS-4.5 |
| NATO O-1180 |
| Bundeswehr TL 9150-0107 |
| MAN Energy Solutions Augsburg (Heritage MAN B&W) 175D engines for Distillate operation |
| ZF TE-ML 23A |
| ZF TE-ML 04C |

| This product is recommended for use in applications requiring: |
|---|
| IVECO 18-1804 TLS E9 |
| MAN M 3271-1 |
| MAN M 3477 |
| MAN M 3575 |
| Scania Low Ash |

This product meets or exceeds the requirements of:

API CH-4

API CI-4

API CI-4 PLUS

API CJ-4

API CK-4

JASO DH-2

ACEA E4

ACEA E6

ACEA E7

ACEA E9

Caterpillar ECF-3

Cummins CES 20081

Cummins CES 20086

DAF Extended Drain

ISUZU DEO (w/ DPD Equipped Vehicles)

Properties and Specifications

| Property | |
|--|------------|
| Grade | SAE 10W-40 |
| Density @ 15.6 C, kg/l, ASTM D4052 | 0.861 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 232 |
| Base Number, mgKOH/g, ASTM D2896 | 13.2 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 91 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 13.7 |
| Viscosity Index, ASTM D2270 | 153 |
| Pour Point, °C, ASTM D97 | -33 |

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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