Mobil

Mobil Delvac Modern™ 10W-40 Advanced Protection

Mobil Commercial Vehicle Lube , United Arab Emirates

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 EOS-4.5
MAN M 3775
RENAULT TRUCKS RLD-2
RENAULT TRUCKS RLD-3
VOLVO VDS-3
VOLVO VDS-4.5
ZF TE-ML 23A
ZF TE-ML 04C
Cummins CES 20081
Cummins CES 20086
DTFR 15C110
DTFR 15C100
VOLVO VDS-4

This product is recommended by ExxonMobil for use in applications requiring:
ACEA E6
ACEA E9

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

This product is recommended for use in applications requiring:
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 E7
Caterpillar ECF-3
DAF Extended Drain
ISUZU DEO (w/ DPD Equipped Vehicles)
ACEA E8

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, mm2/s, ASTM D445	91
Kinematic Viscosity @ 100 C, mm2/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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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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