Mobil

Mobil Delvac Modern™ 5W-30 Extreme Protection

Mobil Commercial Vehicle Lube , Norway

Extreme High Performance Diesel Engine Oil

Product Description

Mobil Delvac Modern 5W-30 Extreme Protection is an extreme high performance diesel engine oil engineered to provide outstanding protection and fuel economy potential in modern, high performance, low emissions engines used in severe on-highway applications. It is formulated with advanced synthetic technology base oils and additive system which provide excellent low temperature fluidity, high temperature viscosity retention, volatility control and contribute to fuel economy improvement potential while prolonging the life and maintaining the efficiency of emission reduction systems such as the Diesel Particulate Filter (DPF).

Mobil Delvac Modern 5W-30 Extreme Protection is also biodiesel compatible.

Features and Benefits

High output, low emission diesel engines significantly increase demands on engine lubricants. Tighter engine design, use of inter-coolers, and turbochargers increase mechanical and 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 5W-30 Extreme Protection delivers exceptional performance and protection of exhaust systems fitted with Diesel Particulate Filters. The key benefits include:

Features	Advantages and Potential Benefits
Excellent low temperature fluidity	Contributes to excellent oil pumpability and circulation allowing operation in cold climate regions. Helps protect against wear during cold engine start-up.
Excellent protection against oil thickening, oil degradation, high temperature deposits, and sludge build-up	Contributes to long oil life consistent with OEM recommended Oil Drain Intervals (ODI) Helps prevent ring sticking for better engine protection and efficiency
Excellent protection against wear, scuffing, bore polishing, and corrosion	Helps control wear in heavy duty operation, promoting long engine life
Advanced "Low Ash" componentry	Helps improve efficiency and extend durability of emission exhaust systems fitted with Diesel Particulate Filters (DPF)
Advanced formulation viscometrics . SAE 5W-30 . Stay-in-grade shear stability . Very low volatility	Potentially helps to reduce fuel consumption over higher viscosity grade engine oils without compromising engine durability (potential fuel economy depending on vehicle type and driving conditions) Helps to control viscosity breakdown and oil consumption under heavy duty, high temperature operating conditions

Applications

Recommended by ExxonMobil for use in:

- Latest generation Daimler Truck requiring ""DTFR 15C110"".
- In commercial vehicle and bus engines (only when operating in regions where ultra-low sulfur fuel is used) without particulate filters for which conventional SAPS oil per MB-Approval 228.5 are recommended (please always refer to MB-Sheet 223.2 and to the owner's manual of the respective vehicle).
- On-highway light, medium and heavy-duty trucking.
- Modern heavy-duty engines equipped with Diesel Particulate Filter (DPF) in line with owner manual recommendations.

Specifications and Approvals

This product has the following approvals:
DTFR 15C110
DQC IV-18 LA
Detroit Detroit Fluids Specification 93K222
MACK EOS-4.5
VOLVO VDS-4.5
MAN M 3775
RENAULT TRUCKS RLD-3
Cummins CES 20086

This product is recommended for use in applications requiring:
IVECO 18-1804 TLS E6
ACEA E9
ACEA E6

This product meets or exceeds the requirements of:
API CK-4
DAF Extended Drain
Caterpillar ECF-3
JASO DH-2
ACEA E8
ACEA E11

Properties and Specifications

Property	
Grade	SAE 5W-30
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	72.4
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	11.8

Property	
Density @ 15.6 C, g/ml, ASTM D4052	0.8561
Viscosity Index, ASTM D2270	159
Ash, Sulfated, mass%, ASTM D874	0.97
Pour Point, °C, ASTM D97	-42
Flash Point, Cleveland Open Cup, °C, ASTM D92	230
Total Base Number, mgKOH/g, ASTM D2896	10.5

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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