Mobil

# Mobil Delvac Modern™ 10W-30 Full Protection

Mobil Commercial Vehicle Lube , Cyprus

High Performance Light Duty Engine Oil

## Product Description

Mobil Delvac Modern 10W-30 Full Protection is a high performance synthetic technology diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Emission After Treatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Mobil Delvac Modern 10W-30 Full Protection is the result of extensive cooperative development work with major OEMs and is recommended by ExxonMobil for use in a wide range of heavy duty applications and operating environments found in the trucking, mining, construction, quarrying, and agricultural industries. Fully backwards compatible, Mobil Delvac Modern 10W-30 Full Protection will also deliver excellent performance in older conventional engines. As a result, it meets or exceeds the requirements of API CK-4, CJ-4, CI-4 PLUS and CH-4 service categories as well as key Original Equipment Manufacturer (OEM) requirements. Mobil Delvac Modern 10W-30 Full Protection also meets or exceeds the requirements of the API SN specification for gasoline engines and mixed fleets and is biodiesel compatible.

## Features and Benefits

Mobil Delvac Modern 10W-30 Full Protection is formulated with Trimer additive technology and a mixed detergent system to deliver cutting-edge performance in both new and older engines. In addition to assuring excellent control of oil thickening due to soot build-up and outstanding Total Base Number (TBN) retention for long drain intervals, Mobil Delvac Modern 10W-30 Full Protection 's advanced technology also provides excellent resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits. Recommended for use with biodiesel providing excellent oxidation stability and piston cleanliness.

| Features | Advantages and Potential Benefits |
|---|---|
| Superior soot-viscosity control | Helps to maintain engine efficiency, long engine life and long oil life |
| Outstanding thermal and oxidative stability | Helps to reduce low temperature sludge build-up and high temperature deposits |
| Excellent oil consumption control | Helps to lower oil costs due to less make-up oil during operation |
| Excellent TBN reserves | Helps to improve corrosion protection and to extend drain intervals |
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| Stay-in-grade shear stability | Helps to maintain viscosity in severe, high temperature service for greater wear protection and long engine life |
| Excellent low temperature pumpability | Fast oil flow and helps to reduce wear during engine start-up in low temperatures |
| Superb resistance to corrosive and abrasive wear | Long life of critical wear surfaces |
| Component compatibility | Long gasket, seal, and after treatment (DPF and DOC) life |
| Meets or exceeds demanding specifications of key OEMs and latest API gasoline service category | One engine oil for mixed fleet operations |

## Applications

Recommended by ExxonMobil for use in:

- The latest low-emissions, high performance diesel applications equipped with After Treatment systems using Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC) technologies.
- High-performance diesel applications including turbo-charged designs featuring EGR Technology and diesel applications using older, naturally aspirated conventional designs.

- On-highway heavy-duty trucking and off-highway including: construction, mining, quarrying, and agriculture.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery.
- Off-highway applications operating in severe low speed/heavy load conditions.
- High performance gasoline engines and mixed fleet operations.
- Diesel-powered equipment from American, European and Japanese OEMs

## Specifications and Approvals

| This product has the following approvals: |
|---|
| DQC II-18 LA |
| Mack EO-O Premium Plus |
| Detroit Fluids Specification 93K218 |
| MACK EOS-4.5 |
| RENAULT TRUCKS RLD-3 |
| VOLVO VDS-4.5 |
| Cummins CES 20086 |
| Cummins CES 20081 |
| DTFR 15C100 |
| Detroit Fluids Specification 93K222 |

| This product is recommended for use in applications requiring: |
|---|
| API CG-4 |
| MAN M 3575 |
| API CF |
| ACEA E9 |

| This product meets or exceeds the requirements of: |
|---|
| API CK-4 |
| API CJ-4 |
| API CI-4 PLUS |
| API CI-4 |
| API CH-4 |
| API SN |
| API SM |

| This product meets or exceeds the requirements of: |
|---|
| Caterpillar ECF-3 |
| JASO DH-2 |
| API SP |
| VOLVO VDS-3 |
| VOLVO VDS-4 |
| ACEA E7 |
| ACEA E11 |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 10W-30 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 12 |
| Viscosity Index, ASTM D2270 | 140 |
| Pour Point, °C, ASTM D97 | -33 |
| Density @ 15 C, g/ml, ASTM D1298 | 0.867 |
| Total Base Number, mgKOH/g, ASTM D2896 | 9.6 |
| Ash, Sulfated, mass%, ASTM D874 | 0.9 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 218 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 82 |

## 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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