



## Mobil Delvac Modern™ 10W-30 Advanced Protection V1

Mobil Commercial Vehicle Lube , Chile

Mobil commercial-vehicle-lube, High Performance Light Duty Engine Oil

### Product Description

Mobil Delvac Modern™ 10W-30 Advanced Protection V1 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 Advanced Protection V1 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 Advanced Protection V1 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.

### Features and Benefits

Mobil Delvac Modern™ 10W-30 Advanced Protection V1 is formulated 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 Advanced Protection V1 advanced technology also provides excellent resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits.

| 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  |
| 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  |

### 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.
- Diesel-powered equipment from American, European and Japanese OEMs

### Specifications and Approvals

| <b>This product has the following approvals:</b> |
|--|
| Detroit Fluids Specification 93K218              |
| Detroit Detroit Fluids Specification 93K222      |
| DEUTZ DQC II-18 LA                               |
| MACK EOS-4.5                                     |
| Mack EO-O Premium Plus                           |
| Mack EO-N Premium Plus 03                        |
| RENAULT TRUCKS RLD-2                             |
| RENAULT TRUCKS RLD-3                             |
| VOLVO VDS-3                                      |
| VOLVO VDS-4                                      |
| VOLVO VDS-4.5                                    |
| Cummins CES 20081                                |
| Cummins CES 20086                                |

| <b>This product is recommended for use in applications requiring:</b> |
|---|
| API CF  |
| API CG-4  |
| API CF-4  |
| MAN M 3575  |

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

API CI-4

API CI-4 PLUS

API CJ-4

API CK-4

API CH-4

Caterpillar ECF-3

JASO DH-2

ACEA E11

ACEA E7

**Properties and Specifications**

| Property   |                  |
|--|------------------|
| Grade  | SAE 10W-30       |
| Density @ 15 C, g/ml, ASTM D1298                           | 0.868            |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 219              |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 11.8             |
| Noack Volatility, mass%, ASTM D5800                        | 11               |
| Pour Point, °C, ASTM D97                                   | -42              |
| Total Base Number, mgKOH/g, ASTM D2896                     | 9.6              |
| Viscosity Index, ASTM D2270                                | 140              |
| Appearance, AMS 1738                                       | Clear and Bright |
| Ash, Sulfated, mass%, ASTM D874                            | 1                |

**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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