



## Mobil Delvac Modern™ 15W-40 Full Protection

Mobil Commercial Vehicle Lube , Bahrain

High Performance Diesel Engine Oil

### Product Description

Mobil Delvac Modern™ 15W-40 Full Protection is a synthetic technology high performance 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 Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible, Mobil Delvac Modern™ 15W-40 Full Protection will also deliver the same exceptional performance in older conventional engines. As a result, it meets or exceeds the requirements of the 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™ 15W-40 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. This product provides outstanding protection in the most demanding diesel engines of Caterpillar, Cummins, Detroit, Deutz, Mack, Mercedes Benz, Renault, MAN, Navistar, Volvo, and others. Mobil Delvac Modern™ 15W-40 Full Protection also meets or exceeds the requirements of the API SN / SM / SL specifications for gasoline engines and mixed fleets. Mobil Delvac Modern™ 15W-40 Full Protection is biodiesel compatible.\*

\*Follow OEM recommendations on potential service adjustments

### Features and Benefits

Mobil Delvac Modern™ 15W-40 Full Protection is a synthetic technology formulated by 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 TBN retention for long drain intervals, Mobil Delvac Modern™ 15W-40 Full Protection's advanced Synthetic technology also provides outstanding resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits.

The key benefits include:

| 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  |
| Meets 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:

- 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)
- 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

| <b>This product has the following approvals:</b> |
|--|
| Detroit Detroit Fluids Specification 93K222      |
| Detroit Fluids Specification 93K218              |
| DQC II-18 LA                                     |
| Mack EO-N Premium Plus 03                        |
| Mack EO-O Premium Plus                           |
| MACK EOS-4.5                                     |
| MB-Approval 228.31                               |
| VOLVO VDS-3                                      |
| VOLVO VDS-4                                      |
| VOLVO VDS-4.5                                    |
| RENAULT TRUCKS RLD-3                             |
| Cummins CES 20081                                |
| Cummins CES 20086                                |

| <b>This product is recommended for use in applications requiring:</b> |
|---|
| API CF  |
| API CF-2  |

**This product is recommended for use in applications requiring:**

API CF-4

API CG-4

MAN M 3275-1

MAN M 3575

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

API CH-4

API CI-4

API CI-4 PLUS

API CJ-4

API CK-4

API SL

API SM

API SN

API SP

JASO DH-2

ACEA E7

ACEA E9

Caterpillar ECF-3

ISUZU DEO (w/ DPD Equipped Vehicles)

ISUZU Small Manual Transmission Oil (except MUA and MUX) and Transfer Case Oil

**Properties and Specifications**

| Property                               |            |
|--|------------|
| Grade                                  | SAE 15W-40 |
| Total Base Number, mgKOH/g, ASTM D2896 | 9.8        |
| Ash, Sulfated, mass%, ASTM D874        | 0.9        |
| Pour Point, °C, ASTM D97               | -33        |
| Viscosity Index, ASTM D2270            | 130        |

| Property   |      |
|--|------|
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 14.1 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 225  |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 109  |

### 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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