



## Mobil Delvac™ Extreme

Mobil Commercial Vehicle Lube , Chile

Premium Synthetic Diesel Engine Oil

### Product Description

Mobil Delvac™ Extreme 15W-40 and 10W-30 are premium synthetic, high performance, diesel engine oils that help extend engine life while providing long drain capability for modern diesel engines operating in extreme conditions. They are recommended for use in a wide range of heavy-duty applications and operating environments found on-and off-highway, including engines operating under heavy loads.

Fully backward compatible, Mobil Delvac Extreme delivers exceptional performance in both newer and older heavy duty engine designs. Accordingly, these oils meet or exceed the requirements of API CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4 service categories, as well as key original equipment manufacturer (OEM) requirements.

Mobil Delvac Extreme is a boosted formulation designed for extended oil drain service and operations in extreme conditions. It delivers unsurpassed high temperature performance under the extreme operating environments found in the trucking, mining, construction, and agricultural industries.

### Features and Benefits

Mobil Delvac Extreme is formulated with synthetic basestocks and a boosted additive system tailored to deliver extended performance for up to two times beyond OEM recommended oil drain intervals<sup>1</sup>. The proprietary formulation delivers excellent wear protection, exceptional oxidation stability<sup>2</sup>, and outstanding TBN retention. Mobil Delvac Extreme also provides outstanding resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits.

Mobil Delvac Extreme 10W-30 has the potential to improve fuel economy<sup>2</sup>.

| Features   | Advantages and Potential Benefits   |
|--|---|
| Exceptional oxidation stability <sup>3</sup>               | Superior performance in extreme conditions and extended ODI service   |
| Excellent soot and viscosity control                       | Greater engine efficiency, long engine life and long oil life   |
| Excellent oil consumption control                          | Lower oil costs due to less make-up oil during operation  |
| Outstanding TBN reserves                                   | Corrosion protection and extended drain intervals for both new and old engines using up to 500 ppm sulfur diesel fuel |
| Low temperature fluidity and pumpability                   | Formulated for smooth starting in cold weather  |
| Resistance to corrosive and abrasive wear                  | Long life of critical wear surfaces   |
| Component compatibility                                    | Long gasket and seal life   |
| Meets demanding specifications of key diesel OEMs          | One engine oil for mixed diesel fleets  |
| Low ash formulation meeting API CK-4 and CJ-4 requirements | Long emissions aftertreatment life (DPF, DOC and SCR)   |

<sup>1</sup> Results may vary based on vehicle/engine condition, driving and environmental conditions Consult OEM or ExxonMobil before implementing extended ODIs.

2 Compared to an SAE 15W-40 conventional engine oil. Savings are dependent on vehicle engine type, outside temperature, driving conditions, and your current engine oil viscosity.

3 Based on performance in the Volvo T-13 engine test.

## Applications

- Recommended for the latest heavy duty diesel engines operating in extreme conditions, including those equipped with aftertreatment systems and EGR.
- Recommended for diesel applications using older and naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway applications including trucking, mining, construction, agriculture and marine.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery service.
- Off-highway applications operating in severe low speed/heavy load conditions using up to 500 ppm sulfur fuels.
- Diesel-powered equipment from American, European and Japanese OEMs.

## Specifications and Approvals

| This product has the following approvals:   | MOBIL DELVAC EXTREME 10W-30 | MOBIL DELVAC EXTREME 15W-40 |
|---|-----------------------------|-----------------------------|
| Allison TES-439                             |                             | X                           |
| Cummins CES 20081                           | X                           | X                           |
| Cummins CES 20086                           | X                           | X                           |
| Detroit Fluids Specification 93K218         | X                           | X                           |
| Detroit Detroit Fluids Specification 93K222 |                             | X                           |
| Ford WSS-M2C171-F1                          |                             | X                           |
| Mack EO-O Premium Plus                      | X                           | X                           |
| MACK EOS-4.5                                | X                           | X                           |
| MAN M 3575                                  | X                           | X                           |
| MB-Approval 228.31                          |                             | X                           |
| MTU Oil Category 2.1                        |                             | X                           |
| RENAULT TRUCKS RLD-3                        | X                           | X                           |
| VOLVO VDS-4                                 | X                           | X                           |
| VOLVO VDS-4.5                               | X                           | X                           |

| This product meets or exceeds the requirements of: | MOBIL DELVAC EXTREME 10W-30 | MOBIL DELVAC EXTREME 15W-40 |
|--|-----------------------------|-----------------------------|
| API CH-4   | X                           | X                           |
| API CI-4   | X                           | X                           |

| This product meets or exceeds the requirements of: | MOBIL DELVAC EXTREME 10W-30 | MOBIL DELVAC EXTREME 15W-40 |
|--|-----------------------------|-----------------------------|
| API CI-4 PLUS                                      | X                           | X                           |
| API CJ-4   | X                           | X                           |
| API CK-4   | X                           | X                           |
| API SL   |                             | X                           |
| API SM   |                             | X                           |
| JASO DH-2  | X                           | X                           |
| ACEA E7  | X                           | X                           |
| ACEA E9  | X                           | X                           |
| CATERPILLAR ECF-3                                  | X                           | X                           |

## Properties and Specifications

| Property   | MOBIL DELVAC EXTREME 10W-30 | MOBIL DELVAC EXTREME 15W-40 |
|--|-----------------------------|-----------------------------|
| Grade  | SAE 10W-30                  | SAE 15W-40                  |
| Ash, Sulfated, mass%, ASTM D874  | 1                           | 1                           |
| Cold-Cranking Simulator, Apparent Viscosity @ -20 C, mPa.s, ASTM D5293 |                             | 6100                        |
| Cold-Cranking Simulator, Apparent Viscosity @ -25 C, mPa.s, ASTM D5293 | 6600                        |                             |
| Density @ 15 C, g/ml, ASTM D1298                                       | 0.867                       | 0.872                       |
| Flash Point, Cleveland Open Cup, °C, ASTM D92                          | 219                         | 221                         |
| Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683  | 3.6                         | 4.1                         |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445             | 11.8                        | 14.3                        |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445              | 81.1                        | 107.4                       |
| Mini-Rotary Viscometer, Apparent Viscosity, -30 C, mPa.s, ASTM D4684   | 18400                       |                             |
| Mini-Rotary Viscometer, Yield Stress, -25 C, Pa, ASTM D4684            |                             | 16900                       |
| Pour Point, °C, ASTM D97   | -42                         | -33                         |
| Total Base Number, mgKOH/g, ASTM D2896                                 | 10.3                        | 10.3                        |
| Viscosity Index, ASTM D2270  | 140                         | 140                         |

## 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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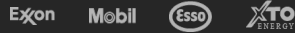
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