



## Mobil Delvac 1™ ESP 5W-40

Mobil Commercial Vehicle Lube , Jordan

High Performance Advanced Synthetic Formula Low Ash Diesel Engine Oil

### Product Description

Mobil Delvac 1™ ESP 5W-40 is an advanced synthetic heavy duty diesel engine oil that helps extend engine life while providing long drain capability<sup>1</sup> and potential fuel economy<sup>2</sup> for modern and latest diesel engine technology operating in severe applications. This product is formulated to deliver exceptional performance in modern and older, hard working, engines, including those with emission control systems. Mobil Delvac 1 ESP 5W-40 is recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, forestry, construction, and agricultural industries.

The outstanding performance of Mobil Delvac 1 ESP 5W-40 is the result of extensive cooperative development work of ExxonMobil with major equipment builders and application of the latest lubrication technology. As a result, this product meets or exceeds the requirements of the latest API and ACEA industry specifications for diesel engine oils, as well as the requirements of many major American, and European engine manufacturers.

### Features and Benefits

Mobil Delvac 1™ ESP 5W-40 is an outstanding lubricant solution for modern and latest engine technology equipped with emission after-treatment. It was developed by ExxonMobil to maintain unsurpassed oxidation stability<sup>3</sup> while also delivering exceptional low temperature fluidity and pumpability for smooth starting in cold down to -35°C. This feature, in combination with the sophisticated additive system, ensures exceptional engine wear performance and supports long engine life. The low ash formulation protects at the same time all exhaust after-treatment devices to maintain cleaner air requirements. The advanced engine cleanliness performance prevents deposits and keeps the engine running like new for long and efficient engine life.

| Features                                     | Advantages and Potential Benefits                             |
|--|---|
| Excellent low temperature pumpability        | Reliable engine start and wear protection at low temperatures |
| Step out wear protection                     | Reduced engine wear to promote long engine life               |
| Unsurpassed oxidation stability <sup>3</sup> | Long oil drain intervals and prevention of deposits           |
| Superb resistance to corrosion               | Protection of critical engine surfaces in humid environments  |

### Applications

Recommended by ExxonMobil for use in:

- Most engine generations up to latest and most sophisticated high performance diesel engines with turbo-charger, direct injection and low emission designs, featuring all types of exhaust after-treatment technology
- On-highway engines operating in both high speed/high load and stop-and-go conditions
- Off-highway engines operating in severe low speed/heavy load conditions
- Most diesel powered equipment from American and European equipment builders
- High performance gasoline engines and mixed fleets
- Refrigeration units

### Specifications and Approvals

**This product has the following approvals:**

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|--|---|
|  | Detroit Fluids Specification 93K218         |
|  | Detroit Detroit Fluids Specification 93K222 |
|  | MACK EOS-4.5                                |
|  | MAN M 3575                                  |
|  | MB-Approval 228.31                          |
|  | MTU Oil Category 2.1                        |
|  | VOLVO VDS-4.5                               |
|  | RENAULT TRUCKS RLD-3                        |

| <b>This product meets or exceeds the requirements of:</b> |                   |
|---|-------------------|
|   | API CK-4          |
|   | API CJ-4          |
|   | API CI-4 PLUS     |
|   | API CI-4          |
|   | API CH-4          |
|   | API SM            |
|   | API SN            |
|   | JASO DH-2         |
|   | Caterpillar ECF-3 |
|   | Cummins CES 20081 |
|   | Cummins CES 20086 |
|   | ACEA E7           |
|   | ACEA E9           |

### Properties and Specifications

| Property   |           |
|--|-----------|
| Grade  | SAE 5W-40 |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 84        |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 13.8      |

| Property   |       |
|--|-------|
| Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293 | 6510  |
| Mini-Rotary Viscometer, Apparent Viscosity, -35 C, mPa.s, ASTM D4684   | 16800 |
| Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683  | 3.8   |
| Viscosity Index, ASTM D2270  | 150   |
| Ash, Sulfated, mass%, ASTM D874  | 1     |
| Total Base Number, mgKOH/g, ASTM D2896                                 | 12    |
| Pour Point, °C, ASTM D97   | -48   |
| Flash Point, Cleveland Open Cup, °C, ASTM D92                          | 233   |
| Density, 15.6C, g/cm3, ASTM D4052                                      | 0.852 |

<sup>1</sup> Please refer to the owners handbook for OEM application requirements and oil drain intervals for your vehicle or equipment.

<sup>2</sup> Compared to an SAE 15W-40 engine oil. Actual savings are dependent on vehicle engine type, outside temperature, driving conditions, and your current engine oil viscosity.

<sup>3</sup> Based on PC-11 industry test data.

#### 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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