



**Mobil Delvac 1™ 5W-40**

Mobil Commercial Vehicle Lube , Slovakia

High Performance Heavy Duty Diesel Engine Oil

Product Description

Mobil Delvac 1 5W-40 is a fully synthetic high performance heavy duty diesel engine oil that helps towards long engine life while providing long drain capability for modern diesel engines operating in severe applications. Mobil Delvac 1 5W-40 delivers excellent performance in modern low emission engines, including refrigerated units, as well as older, well-maintained engines. Mobil Delvac 1 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, construction, and agricultural industries. Mobil Delvac 1 also meets the requirements of the API SL specification for gasoline engines used in mixed fleets.

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

Features and Benefits

Many modern, low emission diesel engines generate more soot and operate at higher temperatures than older engines. This significantly increases the need for high performance lubricants. Current tighter engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Top piston rings are located higher, bringing the oil film closer to the combustion chamber and exposing the lubricant to severe thermal stresses. Mobil Delvac 1 5W-40 maintains outstanding performance at high temperatures. It is also fully compatible with conventional oils. The key benefits include:

1 Relative to conventional 15W-40 engine oil. Actual fuel economy improvement is dependent on vehicle/equipment type, outside temperature, driving conditions and your current fluid viscosity

| Features                                                | Advantages and Potential Benefits                                        |
|---------------------------------------------------------|--------------------------------------------------------------------------|
| Meets or exceeds demanding specifications of major OEMs | One engine oil for mixed fleet operations                                |
| Outstanding thermal and oxidation stability             | Control of low temperature sludge build-up and high temperature deposits |
| Low volatility, excellent wear and bore polish control  | Good oil consumption control                                             |
| Expertly formulated low viscosity formulation           | Fuel economy potential(1)                                                |
| Exceptional low temperature pumpability                 | Easier engine start-up and reduced wear                                  |
| Good resistance to corrosion                            | Helps towards long life of critical wear surfaces                        |
| Long drain capability                                   | Help towards operational efficiency andoverall cost control              |
| Component compatibility                                 | Long gasket and seal life, extended service intervals                    |

Applications

Mobil Delvac 1 5W-40 is recommended for use in super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR). These applications include the following:

- 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
- Virtually all diesel powered equipment from American, European, and Japanese equipment builders

- Refrigeration units

Specifications and Approvals

| This product has the following approvals: |
|-------------------------------------------|
| Detroit Fluids Specification 93K214       |
| MB-Approval 228.5                         |
| VOLVO VDS-2                               |

| This product is recommended for use in applications requiring: |
|----------------------------------------------------------------|
| API CG-4                                                       |
| API CF-4                                                       |
| API CF                                                         |
| CATERPILLAR ECF-1-a                                            |
| Cummins CES 20072                                              |
| Cummins CES 20071                                              |
| CUMMINS CES 20075                                              |

| This product meets or exceeds the requirements of: |
|----------------------------------------------------|
| API CI-4 PLUS                                      |
| API CI-4                                           |
| API CH-4                                           |
| API SL                                             |
| API SJ                                             |
| Cummins CES 20078                                  |
| Cummins CES 20077                                  |
| Cummins CES 20076                                  |
| Ford WSS-M2C171-D                                  |
| GLOBAL DHD-1                                       |
| RENAULT TRUCKS RXD                                 |
| ACEA E4                                            |
| ACEA E7                                            |

|                                                    |
|----------------------------------------------------|
| This product meets or exceeds the requirements of: |
| VOLVO VDS-3                                        |
| RENAULT TRUCKS RLD-2                               |
| Mack EO-N                                          |

Properties and Specifications

| Property                                      |           |
|-----------------------------------------------|-----------|
| Grade                                         | SAE 5W-40 |
| Ash, Sulfated, mass%, ASTM D874               | 1.35      |
| Density @ 15 C, kg/l, ASTM D4052              | 0.854     |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 226       |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 14.8      |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445  | 102       |
| Pour Point, °C, ASTM D97                      | -45       |
| Total Base Number, mgKOH/g, ASTM D2896        | 12        |
| Viscosity Index, ASTM D2270                   | 151       |

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](http://www.exxonmobil.com)

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