



Mobil Delvac Ultra™ 5W-40 Ultimate Defense

Mobil Commercial Vehicle Lube , Switzerland

Ultra-High Performance Diesel Engine Oil

Product Description

Mobil Delvac Ultra 5W-40 Ultimate Defense is an advanced synthetic technology ultra high performance diesel engine oil that provides excellent lubrication inc long drain capability, helping towards long engine life for diesel engines operating in severe applications. The advanced technology behind this product d exceptional performance in turbo-charged as well as older naturally aspirated engines. Mobil Delvac Ultra 5W-40 Ultimate Defense is recommended for use in . range of heavy-duty applications and operating environments found in trucking, mining, construction, agriculture and marine.

Features and Benefits

Modern high output diesel engines run hotter than older engines which significantly increases the demands on engine lubricants. Current tighter engine designs i 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 combt chamber where temperatures increase thermal stress on the lubricant. Mobil Delvac Ultra 5W-40 Ultimate Defense helps to protect the engine under severe ope conditions. It is also fully compatible with conventional mineral oils. The key benefits include:

| Features | Advantages and Potential Benefits |
|---|--|
| Excellent thermal and oxidation stability | Control of low temperature sludge build-up and high temperature varnish deposits |
| High TBN | Helps towards extended drain intervals with high Sulphur fuels |
| Advanced formulation and viscometrics | Maintains viscosity in severe, high temperature service |
| Excellent 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 | Helps towards good operating efficiency and lower overall cost |
| Component compatibility | Long gasket and seal life, extended service intervals |
| Low volatility, excellent wear and bore polishing control | Good oil consumption control |

Applications

- * Mobil Delvac Ultra 5W-40 Ultimate Defense is recommended for use in super high performance diesel applications including turbo-charged and naturally asp engines designs
- * On-highway engines operating in both high speed/high load and short haul pick-up/delivery; off-highway and marine engines operating in severe low speed, load conditions
- * Diesel powered equipment from European builders

Specifications and Approvals

| This product has the following approvals: |
|---|
| RENAULT TRUCKS RLD-2 |
| VOLVO VDS-3 |

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|--|
| This product has the following approvals: |
| MTU Oil Category 3 |
| MAN M 3277 |
| MB-Approval 228.5 |
| MAN M 3377 |
| Mack EO-N |
| DTFR 15B120 |

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| This product is recommended for use in applications requiring: |
| API CF-4 |
| API CG-4 |

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|---|
| This product meets or exceeds the requirements of: |
| API CH-4 |
| API CI-4 |
| API CI-4 PLUS |
| JASO DH-1 |
| ACEA E4 |
| ACEA E7 |
| Caterpillar ECF-2 |
| Cummins CES 20076 |
| Cummins CES 20077 |
| Cummins CES 20078 |
| ISUZU DEO (w/o DPD Equipped Vehicles) |

Properties and Specifications

| Property | |
|---|-----------|
| Grade | SAE 5W-40 |
| Density @ 15.6 C, g/ml, ASTM D1298 | 0.849 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 15.4 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 92.7 |
| Total Base Number, mgKOH/g, ASTM D4739 | 14.5 |

| Property | |
|---|-----|
| Ash, Sulfated, mass%, ASTM D874 | 1.2 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 221 |
| Viscosity Index, ASTM D2270 | 174 |
| Pour Point, °C, ASTM D97 | -48 |

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.as>
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04-2024
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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 pro
performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without nc
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