



Mobil Delvac 1™ 5W-40

Mobil Commercial Vehicle Lube , Guam

Extra high performance synthetic diesel engine oil

Product Description

Mobil Delvac 1 5W-40 is an extra high performance, synthetic diesel engine oil that provides excellent lubrication including long drain capability, helping towards long engine life for diesel engines operating in severe applications. The advanced technology behind this product delivers exceptional performance in turbo-charged as well as older naturally aspirated engines. Mobil Delvac 1 5W-40 is recommended for use in a wide 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 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 where temperatures increase thermal stress on the lubricant. Mobil Delvac 1 5W-40 helps to protect the engine under severe operating 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 1 5W-40 is recommended for use in super high performance diesel applications including turbo-charged and naturally aspirated 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/heavy load conditions.

* Diesel powered equipment from European builders.

Specifications and Approvals

| |
|--------------------------------------------------|
| This product has the following approvals: |
| Mack EO-N |

This product has the following approvals:

MAN M 3277

MAN M 3377

MB 228.5-V2021.1

MTU Oil Category 3

RENAULT TRUCKS RLD-2

VOLVO VDS-3

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 |
| Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293 | 6040 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 92.7 |
| Pour Point, °C, ASTM D97 | -48 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 15.4 |
| Density @ 15 C, g/ml, ASTM D1298 | 0.85 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 220 |

| Property | |
|----------------------------------------|------|
| Total Base Number, mgKOH/g, ASTM D4739 | 14.5 |
| Viscosity Index, ASTM D2270 | 174 |

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

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