



Mobil Delvac Modern 15W-40 Extreme Defense Mine

Mobil Commercial Vehicle Lube , Ecuador

Semisynthetic technology diesel engine oil

Product Description

Mobil Delvac Modern 15W-40 Extreme Defense Mine is a semi synthetic, high performance, diesel engine oil that is specifically designed for lubrication of heavy duty diesel engines in the mining industry.

The advanced chemistry of Mobil Delvac Modern 15W-40 Extreme Defense Mine provides optimum performance in modern heavy duty engines operating on high sulphur fuel.

Accordingly, this oil meets or exceeds the requirements of API CI-4 PLUS and CI-4.

Features and Benefits

These products will provide outstanding protection in the most demanding diesel engines like Caterpillar and Cummins.

| Features | Advantages and Potential Benefits |
|---|--|
| Support against corrosive wear | Long life of critical wear surfaces. |
| Wear rate reduction | Greater engine efficiency, long engine life and long oil life. |
| Outstanding oxidation stability | Lower oil costs due to less make-up oil during operatio |
| Resistance to corrosive and abrasive wear | Corrosion protection and extended drain intervals for both new and old engines |
| Excellent soot and viscosity control | Formulated for smooth starting in cold weather |
| Excellent oil consumption control | Long gasket and seal life |
| Outstanding TBN reserves | Extended ODI potential ¹ |
| Low temperature fluidity and pumpability | |
| Component compatibility | |

Applications

Mobil Delvac Modern 15W-40 Extreme Defense Mine is recommended for use in a wide range of heavy-duty applications and operating environments including:

- Off-highway applications operating in severe low speed/heavy load conditions.
- Off-highway applications including mining and construction.

Specifications and Approvals

This product has the following approvals:

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Cummins CES 20078

This product meets or exceeds the requirements of:

API CH-4

API CI-4

API CI-4 PLUS

Caterpillar ECF-2

Properties and Specifications

| Property | |
|--|------------|
| Grade | SAE 15W-40 |
| Cold-Cranking Simulator, Apparent Viscosity @ -20 C, mPa.s, ASTM D5293 | 5390 |
| Density @ 15.6 C, g/ml, ASTM D1298 | 0.87 |
| Flash Point, Cleveland Open Cup, °F, ASTM D92 | 234 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 15.5 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 117 |
| Noack Volatility, mass%, ASTM D5800 | 9.1 |
| Pour Point, °C, ASTM D97 | -30 |
| Total Base Number, mgKOH/g, ASTM D2896 | 10.8 |
| Viscosity Index, ASTM D2270 | 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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TERPEL-LUBRICANTES ECUADOR S.A.S.

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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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