



## Mobil Delvac Modern 15W-40 Super Defense Mine

Mobil Commercial Vehicle Lube , Colombia

### Product Description

Mobil Delvac Modern 15W-40 Super Defense Mine is a mineral oil, diesel engine oil designed for lubrication of heavy duty diesel engines in the mining industry.

The advanced chemistry of Mobil Delvac Modern 15W-40 Super Defense Mine provides optimum performance in 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 excellent protection in diesel engines like Caterpillar and Cummins.

Features	Advantages and Potential Benefits
Outstanding TBN reserves	Extended ODI potential <sup>1</sup>
Low temperature fluidity and pumpability	Long life of critical wear surfaces.
Component compatibility	Greater engine efficiency, long engine life and long oil life.
	Lower oil costs due to less make-up oil during operation
	Corrosion protection and extended drain intervals for both new and old engines
	Formulated for smooth starting in cold weather
	Long gasket and seal life

### Applications

Mobil Delvac Modern 15W-40 Super 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 builder 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-1-a

Caterpillar ECF-2

**Properties and Specifications**

Property	
Grade	SAE 15W-40
Viscosity Index, ASTM D2270	136
Pour Point, °C, ASTM D97	-36
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	15
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683	4
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	109.4
Flash Point, Cleveland Open Cup, °C, ASTM D92	239
Total Base Number, mgKOH/g, ASTM D2896	10.8
Ash, Sulfated, mass%, ASTM D874	1.1
Density @ 15.6 C, g/ml, ASTM D4052	0.87

**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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05-2024

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