



## Mobil Delvac Modern™ 15W40 Advanced Protection V1

Mobil Commercial Vehicle Lube , Chile

Premium Synthetic Diesel Engine Oil

### Product Description

MOBIL DELVAC MODERN 15W-40 ADVANCED PROTECTION V1 is a premium semi-synthetic, high performance, diesel engine oils that help extend engine life while providing long drain capability for modern diesel engines operating in extreme conditions. It is recommended for use in a wide range of heavy-duty applications and operating environments found on-and off-highway, including engines operating under heavy loads.

Fully backward compatible, MOBIL DELVAC MODERN 15W-40 ADVANCED PROTECTION V1 delivers exceptional performance in both newer and older heavy duty engine designs. Accordingly, these oils meet or exceed the requirements of API CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4 service categories, as well as key original equipment manufacturer (OEM) requirements.

Mobil Delvac Extreme is a boosted formulation designed for extended oil drain service and operations in extreme conditions. It delivers unsurpassed high temperature performance under the extreme operating environments found in the trucking, mining, construction, and agricultural industries.

### Features and Benefits

MOBIL DELVAC MODERN 15W-40 ADVANCED PROTECTION V1 is formulated with synthetic basestocks and a boosted additive system tailored to deliver extended performance and extended oil drain intervals 1.

The proprietary formulation delivers excellent wear protection, exceptional oxidation stability, and outstanding TBN retention.

1 Results may vary based on vehicle/engine condition, driving and environmental conditions Consult OEM or ExxonMobil before implementing extended ODIs.

Features	Advantages and Potential Benefits
Exceptional oxidation stability (Based on performance in the Volvo T-13 engine test.)	Superior performance in extreme conditions and extended ODI service.
Excellent soot and viscosity control.	Greater engine efficiency, long engine life and long oil life.
Excellent oil consumption control.	Lower oil costs due to less make-up oil during operation.
Outstanding TBN reserves.	Corrosion protection and extended drain intervals for both new and old engines using up to 500 ppm sulfur diesel fuel.
Low temperature fluidity and pumpability.	Formulated for smooth starting in cold weather.
Resistance to corrosive and abrasive wear.	Long life of critical wear surfaces.
Component compatibility.	Long gasket and seal life.
Meets demanding specifications of key diesel OEMs.	One engine oil for mixed diesel fleets.
Low ash formulation meeting API CK-4 and CJ-4 requirements.	Long emissions aftertreatment life (DPF, DOC and SCR).

### Applications

- Recommended for the latest heavy duty diesel engines operating in extreme conditions, including those equipped with aftertreatment systems and EGR.
- Recommended for diesel applications using older and naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway applications including trucking, mining, construction, agriculture and marine.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery service.
- Off-highway applications operating in severe low speed/heavy load conditions using up to 500 ppm sulfur fuels.
- Diesel-powered equipment from American, European and Japanese OEMs.

### Specifications and Approvals

<b>This product has the following approvals:</b>
Allison TES-439
Detroit Detroit Fluids Specification 93K222
Detroit Fluids Specification 93K218
DQC III-18 LA
Mack EO-N Premium Plus 03
Mack EO-O Premium Plus
MACK EOS-4.5
MAN M 3775
MTU Oil Category 2.1
RENAULT TRUCKS RLD-3
VOLVO VDS-3
VOLVO VDS-4
VOLVO VDS-4.5
Cummins CES 20081
Cummins CES 20086
DTFR 15C100

<b>This product meets or exceeds the requirements of:</b>
ACEA E7
API CH-4
API CI-4
API CI-4 PLUS
API CJ-4

**This product meets or exceeds the requirements of:**

API CK-4

API SL

API SM

JASO DH-2

Caterpillar ECF-2

Caterpillar ECF-3

ACEA E11

**Properties and Specifications**

Property	
Grade	SAE 15W-40
Total Base Number, mgKOH/g, ASTM D2896	10.3
Pour Point, °C, ASTM D97	-33
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.3
Density @ 15 C, g/ml, ASTM D1298	0.873
Flash Point, Cleveland Open Cup, °C, ASTM D92	221
Viscosity Index, ASTM D2270	133

**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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