



Mobil™ HDEO

Mobil Commercial Vehicle Lube, United States

Heavy Duty Engine Oil

## Product Description

Mobil™ HDEO 15W-40 and 10W-30 are oils designed to meet warranty requirements for high-speed, four-stroke heavy duty diesel engines. These products are formulated to maintain the durability of emission control systems, including diesel particulate filters and other advanced aftertreatment systems.

Mobil HDEO meets or exceeds the requirements of API service classifications CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4. These products are also approved by major original equipment manufacturers (OEM).

## Applications

- Recommended for heavy duty diesel applications including low emission engine designs and those featuring EGR.
- Recommended for heavy duty diesel applications using older and naturally aspirated conventional designs.

## Specifications and Approvals

<b>Mobil HDEO meets or exceeds the requirements of:</b>	<b>15W-40</b>	<b>10W-30</b>
API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4	X	X
Caterpillar ECF-3	X	X
Cummins CES 20086, 20081	X	X

<b>Mobil HDEO is approved by the following OEMs:</b>	<b>15W-40</b>	<b>10W-30</b>
Volvo VDS-4.5, VDS-4	X	X
Mack EOS-4.5, EO-O Premium Plus	X	X
Detroit Fluids Specification 93K222, 93K218	X	X
Ford WSS-M2C171-F1	X	X
MTU Oil Category 2.1	X	
Renault Trucks RLD-4, RLD-3	X	X

## Typical Properties

<b>Mobil HDEO</b>		
SAE Grade	15W-40	10W-30
Viscosity, ASTM D 445		
cSt @ 40°C	112	81.3
cSt @ 100°C	14.2	11.9
Viscosity Index, ASTM D 2270	132	140
Density @ 15.6°C kg/L, ASTM D 4052	0.874	0.867
Pour Point, °C, ASTM D 97	-27	-36
Flash Point, °C, ASTM D 92	225	225
Sulfated Ash, wt%, ASTM D 874	1	1
Total Base Number, mg KOH/g, ASTM D 2896	10	10
CCS, cP, ASTM D 5293	5900 @ -20C	6550 @ -25C
MRV, cP, ASTM D 4684	20000 @ -25C	22600 @ -30C
HTHS @ 150°C, cP, ASTM D4683	4	3.6

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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](http://www.exxonmobil.com)

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