



## Conoco HD Fleet Supreme® Engine Oil

Conoco HD Fleet Supreme Engine Oil is a high-quality universal fleet engine oil designed for use in on-highway diesel trucks and off-highway diesel equipment, and in passenger cars and light trucks with either diesel or gasoline engines. It is formulated with advanced additive technology to provide excellent wear protection, soot control and bearing corrosion protection in low-emission, EGR-equipped diesel engines and in older non-EGR diesel engines. It also will provide excellent protection for gasoline engines for use in mixed fleets.

HD Fleet Supreme Engine Oil meets or exceeds the requirements of API Service Categories CI-4, CH-4, CG-4, CF-4, CF and SL. It also meets or exceeds the requirements of Caterpillar ECF-2, Cummins CES 20078 and Volvo VDS. The SAE 15W-40 viscosity grade meets the stricter performance requirements for soot control and shear stability as defined by API CI-4 PLUS, and also the performance requirements for Mack EO-N Premium Plus 03.

### **Applications**

- On-highway diesel trucks equipped with cooled-EGR, ACERT or other technologies to meet 2004 and earlier exhaust emission standards
- Older diesel equipment with conventional, non-EGR engines
- Mixed fleets with both diesel and gasoline-fueled vehicles
- Off-road construction, earth moving and mining equipment
- Farm equipment with diesel or gasoline engines

HD Fleet Supreme Engine Oil meets or exceeds the requirements of:

- API CI-4 PLUS (SAE 15W-40)
- API Service CI-4, CH-4, CG-4, CF-4, CF, SL
- Caterpillar ECF-2, ECF-1a
- Cummins CES 20078, CES 20076
- Detroit Diesel 7SE270 for 4-Stroke Cycle Engines
- Mack EO-N Premium Plus 03 (SAE 15W-40), EO-M Plus (both grades)
- Volvo VDS-2 (SAE 15W-40), VDS (both grades)
- Diesel engines manufactured by OEMs not listed above, including International (Navistar), John Deere, Hino, Komatsu, Kubota and others

### Universal Fleet Engine Oil

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## Features/Benefits

- Excellent soot control for protection against abrasive wear and soot-induced oil thickening
- Resists viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against wear
- Protects against rust and bearing corrosion
- Good low-temperature pumpability, even with soot-laden oil
- Good resistance to foaming and aeration
- Meets requirements for EGR-equipped diesel engines, conventional diesel engines and gasoline engines

### HD Fleet Supreme® Engine Oil

#### Typical Properties

SAE Grade	10W-30	15W-40
Density, g/cm <sup>3</sup> @ 15.6°C (60°F)	0.871	0.878
Color, ASTM D1500	L 4.0	L 4.0
Flash Point (COC), °C (°F)	215 (419)	227 (440)
Pour Point, °C (°F)	-39 (-38)	-39 (-38)
Viscosity,		
cSt @ 40°C	79.4	115
cSt @ 100°C	12.0	15.2
SUS @ 100°F	406	593
SUS @ 210°F	67.6	80.4
Viscosity Index	143	135
Cold Cranking Viscosity, cP	6,550	6,300
@ (°C)	(-25)	(-20)
High Temp/High Shear Viscosity, cP @ 150°C	3.5	4.1
Sulfated Ash, ASTM D874, wt %	1.18	1.18
Total Base Number (TBN), ASTM D2896	9.3	9.5
Zinc, wt %	0.128	0.134

## Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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