



Super HD II Diesel Engine Oil

Super HD II Diesel Engine Oil is a high-quality universal fleet engine oil designed for use in on-highway diesel trucks and off-highway diesel equipment, as well as in passenger cars and light trucks with either diesel or gasoline engines. It is recommended for use both in EGR-equipped diesel engines and in older, non-EGR diesel engines. It also will provide excellent protection for gasoline engines for use in mixed commercial fleets.

Super HD II is formulated with advanced additive technology to provide excellent wear protection, soot control and bearing corrosion protection. It has excellent soot dispersancy to protect against abrasive wear and soot-induced oil thickening, and excellent oxidation resistance to help minimize deposit formation.

Super HD II meets or exceeds the performance requirements of API Service Categories CI-4 and SL, API CI-4 PLUS and leading OEM specifications for diesel engine oils. It is backward serviceable for use where API CH-4 or earlier "C" category engine oils, or the concurrent earlier OEM specifications, are specified.

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-highway construction, earth moving and mining equipment
- Farm equipment with diesel or gasoline engines

Super HD II is licensed or OEM-certified for:

- API Service CI-4 with CI-4 PLUS, CI-4, CH-4, SL
- Cummins CES 20078
- Mack EO-N Premium Plus 03
- Volvo VDS-2

Super HD II meets or exceeds the requirements of:

- Caterpillar ECF-2, ECF-1-a
- Diesel engines manufactured by OEMs not listed above, including Detroit Diesel, International (Navistar), John Deere, Hino, Komatsu, Kubota and others

Universal Fleet Engine Oil

CONTACT INFORMATION

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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

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Typical Properties

SAE Grade	15W-40
Specific Gravity @ 60°F	0.879
Density, lbs/gal @ 60°F	7.32
Color, ASTM D1500	L 4.0
Flash Point (COC), °C (°F)	240 (464)
Pour Point, °C (°F)	-39 (-38)
Viscosity, Kinematic	
cSt @ 40°C	117
cSt @ 100°C	15.4
Viscosity Index	138
Cold Cranking Viscosity, cP	6,240
@ (°C)	(-20)
High-Temp/High-Shear Viscosity, cP @ 150°C	4.2
Sulfated Ash, ASTM D874, wt %	1.39
Total Base Number (TBN), ASTM D2896	11.0
Zinc, wt %	0.119

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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