



Super-D XA™ Diesel Engine Oil

Kendall Super-D XA (*eXhaust Advantage*) is a premium quality, synthetic blend, API CJ-4 engine oil developed for use in 4-stroke cycle diesel engines designed to meet 2007 on-highway exhaust emission standards. It is specially formulated with advanced low SAPS (Sulfated Ash, Phosphorus and Sulfur) additive technology to protect exhaust after-treatment devices, such as diesel particulate filters (DPFs) and diesel oxidation catalysts (DOCs). It also is backward serviceable for use in pre-2007 diesel engines where API CI-4 PLUS, CI-4, CH-4, CG-4 or CF-4 oils are specified.

Super-D XA is a synthetic blend engine oil manufactured with high-quality Group II and synthetic base stocks and a proprietary performance additive package to provide outstanding wear protection, soot control and bearing corrosion protection in both conventional and EGR-equipped diesel engines. It has excellent soot dispersancy to protect against abrasive wear and soot-induced oil thickening, and to ensure good low-temperature pumpability, even with highly soot-laden oil. The select synthetic stocks and proprietary additive package provide enhanced oxidation resistance and thermal stability at high temperatures and improved low-temperature properties relative to a conventional, non-synthetic formulation.

Super-D XA meets or exceeds the requirements of API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4 and SM. It is approved under the latest OEM specifications from Caterpillar, Cummins, Detroit Diesel, Mack, Mercedes and Volvo for use in their 2007 low-emissions engines. It is formulated for use in diesel engines operating on diesel fuels with sulfur content up to 500 ppm. However, for applications not using Ultra-Low Sulfur Diesel (ULSD), consult the engine manufacturer for recommended service interval.

Applications

- On-highway diesel trucks equipped with exhaust after-treatment devices, such as diesel particulate filters and oxidation catalysts
- Diesel engines equipped with exhaust gas recirculation (EGR) or other NO_x-reduction technologies
- Older diesel equipment with conventional, non-EGR engines
- Off-highway construction, earth moving and mining equipment
- Mixed fleets with diesel and gasoline-fueled vehicles

Super-D XA meets or exceeds the requirements of:

- API Service CJ-4, CI-4 PLUS/CI-4, CH-4, CG-4, CF-4, SM
- ACEA E7-04
- Caterpillar ECF-3
- Cummins CES 20081
- Detroit Diesel Power Guard 93K218

Premium Synthetic
Blend API CJ-4
Diesel Engine Oil
For Low-Emission
Engines

Customer Service
Number:
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- Mack EO-O Premium Plus
- Mercedes-Benz Sheet 228.3
- Volvo VDS-4

Features/Benefits

- Excellent protection for new 2007 emissions-compliant engines and older diesel engines
- Specially formulated to protect exhaust after-treatment devices
- Protects against particulate filter plugging
- Outstanding soot control for protection against abrasive wear and soot-induced oil thickening
- Outstanding resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against wear
- Protects against rust and bearing corrosion
- Excellent low-temperature pumpability with soot-laden oil
- High shear stability
- Good resistance to foaming and aeration

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Typical Properties

SAE Grade	15W-40
API Service	CJ-4, CI-4 PLUS/CI-4, CH-4, CG-4, CF-4, SM
Density, g/cm ³ @ 15.6°C (60°F)	0.876
Color, ASTM D1500	L 4.0
Flash Point (COC), °C (°F)	229 (444)
Pour Point, °C (°F)	-36 (-33)
Viscosity,	
cSt @ 40°C	115
cSt @ 100°C	15.3
SUS @ 100°F	592
SUS @ 210°F	80.8
Viscosity Index	139
Cold Cranking Viscosity, cP @ (°C)	6,200 (-20)
High-Temp/High-Shear Viscosity, cP @ 150°C	4.4
Sulfated Ash, ASTM D874, wt %	0.95
Total Base Number (TBN), ASTM D2896	9.5
Zinc, wt %	0.126

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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