



Kendall Super-D XA™ with Liquid Titanium FACT SHEET

OVERVIEW:

Kendall Super-D XA™ with Liquid Titanium is an enhanced, premium-tier API CJ-4 diesel engine oil formulated with an exclusive liquid-titanium technology in order to provide antiwear protection and oxidation protection. By working at a molecular level, the liquid-titanium-additive chemically binds itself to critical engine parts to reduce wear and help extend engine life. It is the only multi-grade, heavy duty engine oil of its kind.

Kendall Super-D XA™ with Liquid Titanium is an enhancement to ConocoPhillips Company's industry-leading API CJ-4 synthetic blend engine oil made from an advanced, low SAPS (sulfated ash, phosphorous and sulfur) technology.

WHY TITANIUM?

Titanium is already a valued ingredient in many applications and industries such as aerospace, medicine and in the military because it has the highest strength-to-weight ratio of any metal. It also resists high temperatures, making it a natural fit for heavy-duty trucking purposes.

BENEFITS:

Antiwear Protection – In areas of extreme, localized heat, Kendall Super-D XA™ with Liquid Titanium is chemically bonded to metal surfaces, which provides:

- an extra layer of protection against surface damage to crossheads, tappets, rings, cam lobes and other critical engine parts
- the potential to lower repair costs and extended time between rebuilds

Oxidation Protection – Kendall incorporated liquid titanium because it helps to inhibit high-temperature oil oxidation—a harmful process leading to deposits, corrosion, sludge and reduced performance. The strong oxidation protection in Kendall Super-D XA™ with Liquid Titanium helps:

- extend oil life
- improve engine performance in severe-duty operation
- reduce maintenance

INGREDIENTS: Kendall Super-D XA™ with Liquid Titanium is engineered from advanced high-performance additives and a blend of synthetic and high-quality Group II base stocks.

HOTSPOTS: Kendall Super-D XA™ with Liquid Titanium helps target the following diesel engine parts:

- Rocker Arm
- Turbocharger
- Cylinder Liners
- Main and Rod Bearings
- Oil Pan
- Camshaft
- Piston Rings
- Piston Ring Grooves

PERFORMANCE: Kendall Super-D XA™ with Liquid Titanium shows reduced wear of critical parts in the severe Cummins ISB test and shows reduced wear, less deposits and increased oil-oxidation stability in other industry standard engine tests and bench tests.

TECHNICAL SPECIFICATIONS: Kendall Super-D XA™ with Liquid Titanium meets or exceeds the requirements of:

- API Service CJ-4/SM
- API Service CI-4 PLUS, CI-4, CH-4, CG-4
- ACEA 37
- Caterpillar ECF-3, ECF-2, ECF-1a
- Cummins CES 20081
- Detroit Diesel Power Guard 93K218
- Mack EO-O Premium Plus
- Mercedes-Benz Sheet 228.3
- Volvo VDS4

Additionally, Kendall Super-D XA™ with Liquid Titanium is backward serviceable, so older engines also can receive the benefits of this premium formulation with liquid titanium.

AVAILABILITY: Available now.

ABOUT CONOCOPHILLIPS: ConocoPhillips Lubricants encompasses Conoco, Phillips 66, 76 Lubricants and Kendall Motor Oil. Kendall Super-D XA™ with Liquid Titanium is a product of Kendall Motor Oil.

ConocoPhillips Lubricants is the fourth largest finished lubricants supplier in the United States with five proprietary blending facilities and sales in all 50 states and over 50 countries worldwide.

ConocoPhillips Lubricants is recognized as an industry expert with a world-class research and development facility in Ponca City, Okla.

**CORPORATE
HEADQUARTERS:**

ConocoPhillips Lubricants
600 North Dairy Ashford
2W-9074
Houston, TX 77079

**ONLINE
RESOURCES:**

See the oil in action in an interactive 3D engine demo at
lubricants.conocophillips.com/TITANIUM

To locate a Marketer in your area or receive additional information about this new offering, visit www.conocophillipslubricants.com

ConocoPhillips is an integrated petroleum company with interests around the world. For more information, go to
www.conocophillips.com

MEDIA CONTACT:

Katie Williams
Formula
(619) 234-0345
williams@formulapr.com

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