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DATA BULLETIN

Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil

Maximum Fuel Economy and Excellent Anti-Wear Protection



AMSOIL Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil delivers extraordinary lubrication in both diesel and gasoline engines found in commercial, fleet and personal vehicles. By combining synthetic base oils with AMSOIL premium additives, Series 3000 exceeds the higher performance demands of modern engines, including those with turbochargers. It withstands the stress of higher heat, higher acid levels and excessive soot-loading found in exhaust gas recirculation (EGR)-equipped engines. Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil consistently outperforms conventional and synthetic diesel oils for long-lasting performance and protection.

Maximum Protection Against Engine Wear

Even under high temperatures and pressures, Series 3000 Diesel Oil's superior film strength and anti-wear additives help prevent metal-to-metal contact. Series 3000 reduces ring wear, cylinder bore polishing, oil consumption and valvetrain wear for improved engine life and lower maintenance costs.

Maximizes Fuel Economy

Series 3000 Diesel Oil is energy efficient for reduced fuel costs. Its low viscosity minimizes "drag" associated with high-viscosity oils, allowing the engine to operate more freely, maximizing power and fuel economy.

Extends Drain Intervals

Series 3000 Diesel Oil can extend drain intervals far beyond those recommended for conventional oils. Its unique synthetic formulation and long-drain additive system deliver maximum engine protection, cleanliness and performance over extended drain intervals, reducing vehicle maintenance and waste oil disposal costs.

Controls Soot-Thickening and Wear

Series 3000 Diesel Oil is heavily fortified with detergent/dispersant additives and is naturally resistant to soot. It is designed to keep soot particles suspended independently and prevent them from attaching together to form larger, wear-causing particles. Viscosity increase is minimized and soot-related wear is controlled.

Reduces Oil Consumption and Emissions

Series 3000 Diesel Oil effectively reduces high-temperature volatility (evaporation), outperforming conventional oils. Because less oil vapor passes into the combustion chamber, oil consumption and emissions are reduced. Additionally, lower volatility helps Series 3000 Diesel Oil retain its viscosity after high-temperature service for continued dependable protection and excellent fuel economy.

Excels in Extreme Temperatures

Series 3000 Diesel Oil resists thermal (heat) breakdown, oxidation and sludge formation better than conventional oils. And unlike conventional petroleum oils, AMSOIL Series 3000 contains no wax. It stays fluid down to -47°C (-53°F) for improved cold-temperature oil flow, reduced bearing wear and easier starting.

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Typical Technical Properties – AMSOIL Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil (HDD)

Kinematic Viscosity @ 100˚C, cSt (ASTM D445)	11.7
Kinematic Viscosity @ 40˚C, cSt (ASTM D445)	70.1
Viscosity Index (ASTM D2270)	163
Cold Crank Simulator Apparent Viscosity @ -30˚C, cP (ASTM D5293)	5286
Pour Point, ˚C (˚F) (ASTM D97)	-47 (-53)
Flash Point, ˚C (˚F) (ASTM D92)	228 (442)
Fire Point, ˚C (˚F) (ASTM D92)	238 (460)
NOACK Volatility (ASTM D5800) % weight loss	7.5
High-Temperature/High-Shear Viscosity, cP (ASTM D5481)	3.5
Four-Ball Wear Test (ASTM D4172) Scar, mm	0.47
Total Base Number	12.1

APPLICATIONS

Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil is recommended for diesel engines, including those that are turbocharged, gasoline engines and other applications that require any of the following specifications:

• API CI-4+, CI-4, CH-4, CF-2, CF, SL, SJ • ACEA A3/B3, E2, E3, E5, E7 • Global DHD-1 • JASO DH-1 • Mack EO-M, EO-N • DDC 93K214 • Caterpillar ECF-1-a, ECF-2 • Cummins CES 20076, 20077, 20078 • Volvo VDS-2, VDS-3 • MB 228.1, 228.3, 229.1 • MAN 271/3275 • MTU Type II

COMPATIBILITY

Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil is compatible with other conventional and synthetic motor oils. Mixing AMSOIL motor oils with other oils, however, will shorten the oil's life expectancy and reduce the performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are **not recommended** for use with AMSOIL engine oils.

SERVICE LIFE

Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil is recommended for extended drain intervals in unmodified, mechanically sound vehicles or equipment as follows:

DIESEL ENGINE SERVICE

- Three times (3X) OEM* recommendation, not to exceed 50,000 miles/600 hours or one year, whichever comes first. Drain intervals may be extended further with oil analysis.

GASOLINE ENGINE SERVICE

- **Normal Service** – Up to 25,000 miles or one year, whichever comes first, or longer based on oil analysis.
- **Severe Service** – Up to 15,000 miles or one year, whichever comes first, or longer based on oil analysis.

* Operating conditions and drain intervals for severe and normal service are defined by the OEM. Refer to your owner's manual.

Note: *Extended drain intervals are not recommended when using biofuels containing >10% ethanol or 10% biodiesel (B10). Follow OEM drain intervals or extend drain intervals with oil analysis.*

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at www.amsoil.com or upon request at 715-392-7101. **Keep Out Of Reach Of Children.** Recycle used oil and bottle.

AMSOIL The First in Synthetics®

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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