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DATA SHEET

Freedom Series Synthetic Diesel Oil

Advanced formulation for diesel pickups equipped with Fleece Performance Engineering products

Treat your diesel right with Freedom Series 100% Synthetic Diesel Oil. Freedom Series emerged when AMSOIL and Fleece Performance Engineering partnered to develop an advanced formulation for diesel pickup trucks equipped with Fleece Performance products. Freedom Series Synthetic Diesel Oil provides excellent turbo cleanliness, superior soot control and outstanding wear protection. The result: protection engineered to perform.



Outstanding Engine Protection

Wear on rings and cylinder liners leads to increased oil consumption and loss of compression, resulting in reduced horsepower and fuel economy. Freedom Series Synthetic Diesel Oil is formulated to deliver outstanding wear protection in demanding operating conditions, maximizing the life of your diesel pickup and reducing maintenance costs and downtime.

Soot Control

Soot buildup in a diesel pickup can reduce power, increase abrasion, cause emissions-system problems and decrease fuel economy. Freedom Series Synthetic Diesel Oil is naturally resistant to oxidation and the thickening effects of soot contamination. That, along with boosted detergent/dispersant additives, keeps soot particles suspended independently, helping prevent the formation of larger, wear-causing particles. Viscosity increase is minimized and soot-related wear is controlled. Lower volatility also helps Freedom Series retain its viscosity after high-temperature service for maximum engine protection and efficiency.

Excels in Extreme Temperatures

Freedom Series Synthetic Diesel Oil effectively resists thermal (heat) breakdown. Unlike conventional oils, Freedom Series contains no wax, staying fluid in sub-zero temperatures for easier starting, improved oil flow and reduced wear, making it excellent for use in both hot-operating engines and cold-weather starting extremes.

Minimizes Oil Consumption

Freedom Series Synthetic Diesel Oil has a low rate of volatility (burn-off), reducing oil consumption during operation and passing less oil vapor into the combustion chamber.

Turbo Cleanliness

Freedom Series Synthetic Diesel Oil provides the turbo cleanliness needed to support reliability when towing, hauling or modifying for additional horsepower.



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TYPICAL TECHNICAL PROPERTIES
Freedom Series Synthetic Diesel Oil

	10W-30 (FD1030)	5W-40 (FD540)	15W-40 (FD1540)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	12.2	14.4	15.4
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	78.9	88.7	114.8
Viscosity Index (ASTM D2270)	150	150	140
CCS Viscosity @ °C, cP (ASTM D5293)	5403 (-25)	6260 (-30)	5272 (-20)
Pour Point, °C (°F) (ASTM D97)	-40 (-40)	-41 (-42)	-39 (-38)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	5.1	12.0	4.0
Total Base Number (ASTM D2896)	10.5	10.5	10.5
High-Temperature/High-Shear Viscosity, cP (ASTM D5481)	3.5	3.9	4.5
Sulfated Ash Content, wt. %	1.0	1.0	1.0

APPLICATIONS
Use in turbodiesel engines specifying API CK-4 (and prior) and equipped with Fleece Performance Engineering products.

COMPATIBILITY
Freedom Series Synthetic Diesel Oil is compatible with other conventional and synthetic engine oils. Mixing AMSOIL diesel oil with other oils, however, will reduce its performance benefits.

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

SERVICE LIFE
Turbodiesel Pickup: Recommended for the drain intervals stated by the vehicle manufacturer. Refer to the owner's manual for the specific oil change interval. .

Competition Service Life: When competing, the vehicle owner is responsible for determining the appropriate service interval.

TECHNICAL SERVICES
For immediate answers to your technical questions call (715) 399-8324 (TECH) between 8 a.m. and 5 p.m. Central time or email tech@AMSOIL.com.

PRODUCT WARRANTY
Using AMSOIL synthetic lubricants or practicing extended drain intervals does not void your new vehicle or equipment manufacturer's warranty. All AMSOIL lubricants and filters are covered by the AMSOIL Limited Warranty. For complete information visit 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 AMSOIL.com or upon request at (715) 392-7101. **Keep Out of Reach of Children**. Recycle used oil and bottle.

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FLEECE PERFORMANCE ENGINEERING | AMSOIL

Freedom Series products are available exclusively through the Authorized Fleece Performance and AMSOIL Dealer networks.

FORMULATED, BLENDED AND PACKAGED IN THE USA

Scan here to learn more about Fleece Performance fluid products.

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