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DATA SHEET

Freedom Series 15W-50 Synthetic Racing Oil

The Confidence to Compete, The Protection to Win



Freedom Series 15W-50 100% Synthetic Racing Oil is designed for those who demand superior protection for their high-performance engines. Freedom Series emerged when AMSOIL and Fleece Performance Engineering partnered to develop an advanced formulation for diesel racing vehicles equipped with Fleece Performance products. It is specifically engineered to deliver the most important benefits for high-horsepower and turbocharged competition diesel engines, including superior bearing protection and robust durability that withstands extreme pressures and temperatures. Whether competing in sled pulls, drag races or dyno challenges, competitors using Freedom Series Synthetic Racing Oil enjoy confidence and security in knowing that their powerful diesel engines are receiving maximum protection and achieving maximum performance.

Wear Protection

Racing and high-performance diesel engines are modified to deliver maximum horsepower and torque. Their powerful designs create shearing forces that can cause oils to lose viscosity, leaving bearings, pistons and other components vulnerable to wear and failure. Freedom Series 15W-50 Synthetic Racing Oil effectively withstands high cylinder pressures and protects against wear. It is heavily fortified with zinc and phosphorus anti-wear additives to provide additional protection against scuffing and wear in severe conditions.

Viscosity Control

High-horsepower diesel engines push a lot of fuel, leading to fuel dilution. Fuel reduces the oil's viscosity. As the oil becomes thinner, it compromises the lubrication of critical components, increasing wear. Freedom Series Synthetic Racing Oil's robust formulation helps offset the damaging effects of fuel dilution by maintaining its protective viscosity longer.

Withstands Turbocharger Heat

Over time, turbos can suffer reduced performance or catastrophic failure. Freedom Series Synthetic Racing Oil is designed with an extremely durable 15W-50 synthetic formulation that contains maximum levels of oxidation-inhibitor additives to resist harmful oxidation and provide exceptional resistance to deposit formation, preserving turbocharger performance and life.

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TYPICAL TECHNICAL PROPERTIES
Freedom Series 15W-50 Synthetic Racing Oil (FD1550)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	21.0
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	157.0
Viscosity Index (ASTM D2270)	56
CCS Viscosity @ °C, cP (ASTM D5293)	5856 (-20)
Pour Point, °C (°F) (ASTM D97)	-39 (-38)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	4.7
Total Base Number (ASTM D2896)	10.5
High-Temperature/High-Shear Viscosity, cP (ASTM D5481)	5.6
Sulfated Ash Content, wt. %	1.0

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

COMPATIBILITY
Freedom Series 15W-50 Synthetic Racing Oil is compatible with other conventional and synthetic engine oils. Mixing AMSOIL racing oil with other oils, however, will reduce its performance benefits.

Aftermarket oil additives are **not recommended** for use with Freedom Series 15W-50 Synthetic Racing Oil.

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

Scan here to learn more about Fleece Performance fluid products.

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