



The First in Synthetics®

Synthetic 10W-30/SAE 30 Heavy Duty Diesel Oil

**Outperforms Conventional
Diesel Oils**



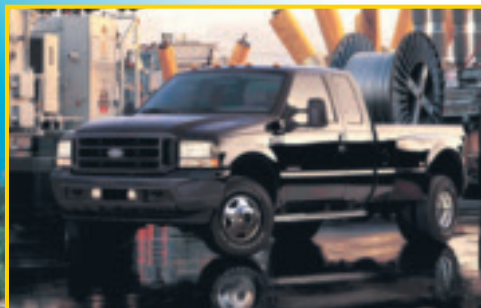
PRODUCT DESCRIPTION

AMSOIL Synthetic 10W-30/SAE 30 Diesel Oil (ACD) is formulated with premium synthetic base oils that exceed both 10W-30 multi-grade and SAE 30 straight-grade viscosity requirements for outstanding performance in modern and older diesel engines. Unlike conventional SAE 30 motor oils, AMSOIL ACD has a naturally high viscosity index and does not contain paraffin (wax). It has a -36°F pour point and qualifies for SAE 10W, making it an “all-season” multi-grade lubricant with a wide operating temperature range. AMSOIL ACD is formulated without viscosity index improvers (VI). This shear-stable formulation stops viscosity loss and associated bearing and cylinder bore wear. AMSOIL ACD contains premium additives with a high 12 TBN to neutralize acids from blow-by, exhaust gas recirculation (EGR) and high-sulfur diesel fuels. It protects against damaging piston deposits, ring sticking and sludge.

AMSOIL, the leader in automotive synthetic lubrication, produced the world’s first API-qualified synthetic motor oil back in 1972. Trust the extensive experience of AMSOIL *The First in Synthetics®* to do the best job protecting your equipment.

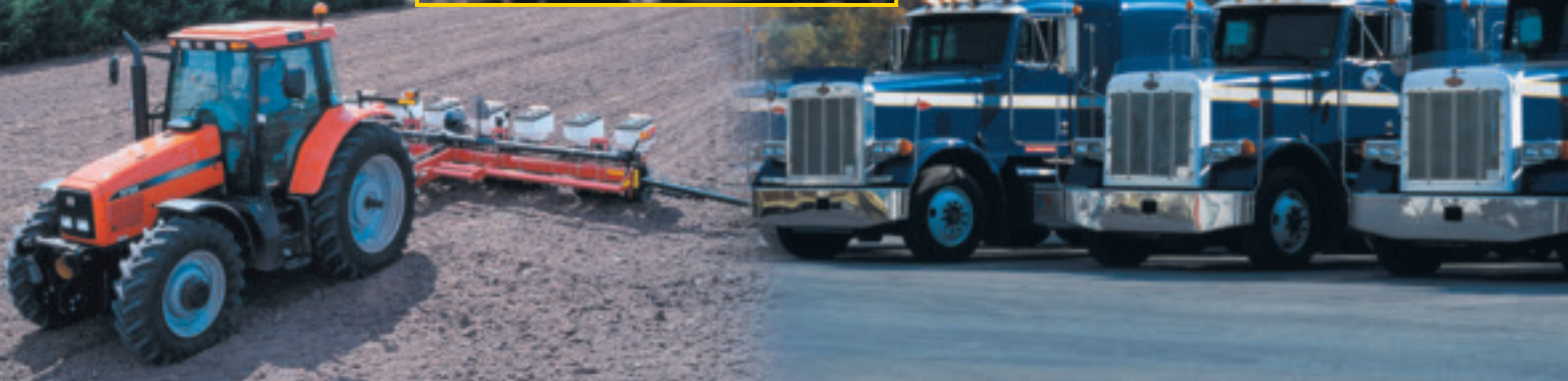
APPLICATIONS

Where these viscosity grades are specified, AMSOIL Synthetic 10W-30/SAE 30 Diesel Oil (ACD) provides outstanding performance as a straight-grade SAE 30 for older two- and four-stroke diesels and as a multi-grade SAE 10W-30 in modern four-stroke



diesels as well as gasoline engines. AMSOIL ACD is ideal for use in a wide variety of light and heavy-duty applications, including agriculture, off-road construction, trucking, mining, industrial (pumps and generators) and personal automotive or commercial transportation. It is recommended for use with low- or high-sulfur diesel fuels in standard, turbocharged or supercharged engines, all off-road engines and pre-2007 on-road engines.

- **SAE 10W-30 performance without VI improvers**
- **Cost-effective replacement for conventional oils**
- **Excellent shear stability**
- **Outstanding wear protection**
- **Superior protection over a broad range of operating temperatures**
- **Extended service life with oil analysis**



TYPICAL TECHNICAL PROPERTIES

Synthetic 10W-30/SAE 30 Diesel Oil (ACD)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.5	Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	6.7
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	66.3	High-Temperature/High-Shear Viscosity @ 150°C, $1.4 \times 10^6 \text{s}^{-1}$, cP (ASTM D-5481)	3.4
Viscosity Index (ASTM D-2270)	141	Four-Ball Wear Test (ASTM D-4172B @ 40 kg pressure, 75°C, 1200 rpm, 1 hr), Scar, mm	0.40
Cold Crank Simulator Apparent Viscosity @ -25°C, cP (ASTM D-5293)	5917	Total Base Number	12.0
Pour Point °C (°F) (ASTM D-97)	-36 (-33)		
Flash Point °C (°F) (ASTM D-92)	230 (446)		
Fire Point °C (°F) (ASTM D-92)	248 (478)		

APPLICATIONS

AMSOIL ACD is recommended for diesel engines and other applications requiring any of the listed worldwide specifications and gasoline engines requiring API SL, SJ, SH... or ACEA A3.

- API CI-4+/CH-4/CG-4/SL • API CF/CE/CD/CC • API CF-2/CD-II • Global DHD-1 • ACEA A3/B3, E2, E3, E5
- JASO DH-1 • Mack EO-M+, EO-N Premium Plus '03
- Detroit Diesel Power Guard 93K214 • Caterpillar ECF-1 a, ECF-2 • Cummins CES 20076/20077/20078 (current), 20071/20072 (older) • Volvo VDS3/VDS2 • Mercedes Benz 228.1/228.3/229.1 • MAN 271/3275 • MTU Type 1
- MIL-PRF-2104G

MIXING AMSOIL

AMSOIL ACD is compatible with conventional and synthetic motor oils, however, mixing AMSOIL ACD with other oils will shorten the oil life expectancy and reduce the performance benefits. AMSOIL does not support extended drain intervals where AMSOIL ACD has been mixed with another product.

Aftermarket additives are not recommended for use with AMSOIL ACD.

SERVICE LIFE

AMSOIL Synthetic Heavy Duty Diesel Oil is recommended for extended drain intervals in unmodified, mechanically-sound vehicles or equipment as follows:

Diesel 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.

Gasoline Engine Service

- In gasoline engines, oil drain intervals may be extended up to two times (2X) the OEM* recommended drain interval (not to exceed 15,000 miles without oil analysis) or one year, whichever comes first.

*OEM = Original Equipment Manufacturer

AMSOIL Ea and Donaldson Endurance Full-Flow Oil Filters are designed for extended drain intervals. They stop smaller particles, have less restriction and last longer than regular filters. For best performance, use AMSOIL Ea or Donaldson Endurance Oil Filters.

AMSOIL Ea By-Pass Oil Filters are specialized for the removal of small, wear-causing dirt particles, thereby extending engine life. AMSOIL encourages using an AMSOIL Ea By-Pass Filtration system for maximum engine and oil life.

OIL ANALYZERS INC., 715-395-0222, is a division of AMSOIL that provides cost effective, quality oil analysis services.

For more information on product applications and service life, refer to the AMSOIL *Product Recommendation and Drain Interval Chart* (G1490).

Health & Safety

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available upon request at 715-392-7101 or via the Internet at www.amsoil.com. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

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

