



*The First in Synthetics®*

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

## 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)	10.9	Fire Point °C (°F) (ASTM D-92)	246 (475)
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	71.4	Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	6.3
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)	5165	Total Base Number	12.0
Pour Point °C (°F) (ASTM D-97)	-38 (-36)		
Flash Point °C (°F) (ASTM D-92)	232 (450)		

## PERFORMANCE

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-N Premium Plus '03
- Detroit Diesel Power Guard 93K214
- Caterpillar ECF-1 • Cummins CES 20076/20077/20078 (current), 20071/20072 (older) • Volvo VDS3/VDS2
- Mercedes Benz 228.1/228.3/229.1 • MAN 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<sup>(1)</sup>, mechanically sound<sup>(2)</sup> vehicles or equipment as follows:

### Personal Light Truck Diesel Engine Service

- **Normal Service**<sup>(3)</sup> — Up to 25,000 miles or one year, whichever comes first, or longer based on oil analysis.
- **Severe Service**<sup>(4)</sup> — Up to 15,000 miles or one year, whichever comes first, or longer based on oil analysis.
  - Replace AMSOIL Ea™ full flow oil filter at the time of oil change up to 25,000 miles (other brands at standard OEM\* intervals).

### Commercial or Fleet Vehicles, Long-Haul Trucks, Marine Craft, RV, Off-Road Equipment

- **Non-EGR equipped diesels** — extend drain intervals up to two times (2X) the OEM\* recommended drain interval or one year, whichever comes first, or longer based on oil analysis.

- **EGR equipped or low emission diesels** — extend drain intervals based on oil analysis or use the OEM\* recommended interval.

- Replace Donaldson Endurance™ or AMSOIL Ea™ full flow oil filters at the time of oil change up to two times (2X) longer than the OEM\* standard interval, not to exceed 60,000 miles in long-haul trucks.

### 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. Replace AMSOIL Ea™ full flow filter at the time of oil change up to 25,000 miles. Replace other brand oil filters at standard OEM\* intervals.

\*OEM = Original Equipment Manufacturer

<sup>(1)</sup> Where the engine or operating conditions have been modified from the original manufacturers' design, no oil change interval recommendation is made. Oil change intervals are at the owner's discretion. Examples include the use of performance computer chips; modified exhaust, fuel or air induction systems and the use of fuels other than those recommended for normal operation by the manufacturers.

<sup>(2)</sup> Engines are in good working condition and within the factory design settings. Mechanically sound engines, for example, do not leak oil or consume excessive amounts, are not worn out, do not overheat, do not have internal or external anti-freeze leaks and have a properly working emission control system. AMSOIL recommends repairs be made to malfunctioning engines prior to the installation of AMSOIL synthetic oils.

<sup>(3)</sup> Personal transportation vehicles frequently traveling greater than 10 miles (16 km) at a time and not operating under severe service.

<sup>(4)</sup> Extensive engine idling, daily short trip driving less than 10 miles (16 km), frequent towing, plowing or hauling heavy loads and frequent driving in dusty conditions.

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 Filter 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.

## 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](http://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.

