



*The First in Synthetics®*

**Custom-Blended For Outstanding  
Performance In Diesel Engines**

## **SYNTHETIC DIESEL OIL SAE 30**

- API Service CF, CF-2, SH, SJ, SL
- ACEA/CCMC D4, PD2 • MIL-L-2104F
- Caterpillar Powershift Trans. TO-2 and TO-3
  - Allison C-3 and C-4 • Mack EO-L, EO-M
- M.A.N. 270 • Mercedes-Benz AG 227.0, 226.0
- Navistar International Truck • Scania Long Drain
  - Volvo VDS • VW 505.00

### **PRODUCT DESCRIPTION**

AMSOIL SAE 30 Synthetic Diesel Oil is a super heavy-duty diesel lubricant chemically designed for use in commercial and industrial applications where requirements call for a CF, CF-2, SH, SJ or SL lubricant. AMSOIL Diesel Oil is recommended for virtually every diesel application, including truck fleets, mining, earth moving, farming and stationary engines. In every engine tested (including Detroit Diesel, Caterpillar, Cummins and Mack), the advanced 12 TBN additive system of AMSOIL Diesel Oil significantly reduced ring wear, cylinder bore polishing, cylinder liner wear, oil consumption, piston deposits and ring breakage. The extended drain intervals allowable with AMSOIL Diesel Oil reduce vehicle downtime and waste oil disposal costs.

#### **Reduces Oil Consumption**

AMSOIL Diesel Oil loses only 7.4 percent of its mass to high temperature volatility. Conventional oils often lose over 15 percent. Due to its low volatility, AMSOIL Diesel Oil maintains a low rate of oil consumption and hydrocarbon emissions and retains its original viscosity after high temperature service for continued dependable protection and excellent fuel economy.

#### **Resists Oxidation and Thermal Breakdown**

AMSOIL Diesel Oil resists oil breakdown from heat, blowby chemicals and oxygen up to ten times longer than do conventional oils. AMSOIL Diesel Oil resists forming sludge and varnish deposits, which contribute to corrosion, decreased fuel efficiency and increased engine wear. AMSOIL Diesel Oil doesn't thicken like conventional oils, but maintains its viscosity, providing peak engine

performance and extended drain intervals. Also, the advanced heat transfer capabilities and high lubricity of AMSOIL Diesel Oil reduces the operating temperatures of engines and transmissions.

#### **Extended Drain Intervals**

AMSOIL Diesel Oil is formulated for extended drain intervals. Its unique synthetic formulation, improved detergent/dispersant capabilities and long drain additive package ensure maximum engine protection, cleanliness and performance over extended drain periods. In addition, the advanced 12 TBN additive package of AMSOIL Diesel Oil neutralizes acids and keeps the engine clean and in top-running condition.

#### **Provides Low Temperature Protection**

AMSOIL Diesel Oil remains fluid at temperatures as low as -38°C (-36°F). AMSOIL Diesel Oil circulates rapidly to all engine parts to provide immediate cold start protection. The ability of AMSOIL Diesel Oil to lubricate at low temperatures greatly reduces wear and increases engine life.

#### **Improves Fuel Economy and Reduces Emissions**

The premium quality synthetic base stocks in AMSOIL Diesel Oil provide a tough lubricating film on all engine parts, reducing friction and fuel consumption. Reduced fuel consumption also means less exhaust emissions.

#### **Prevents Rust and Corrosion**

AMSOIL Diesel Oil contains special rust-inhibiting additives to reduce rust, which makes it ideal for equipment stored long term.

## TYPICAL TECHNICAL PROPERTIES

### AMSOIL SAE 30 Synthetic Diesel Oil (ACD)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445) ...	11.5	Fire Point, °C (°F) (ASTM D-92) .....	252 (486)
Kinematic Viscosity @ 40°C, cSt (ASTM D-445) ...	85.4	Noack Volatility, % weight loss (g/100g) (ASTM D-5800) .....	7.4
Viscosity Index (ASTM D-2270) .....	124	Four Ball Wear Test (ASTM D-4172B: 40kg 75°C, 1200 rpm, 1hr.) Scar, mm .....	0.38
Pour Point, °C (°F) (ASTM D-97) .....	-38 (-36)	Total Base Number .....	>12
Flash Point, °C (°F) (ASTM D-92) .....	232 (450)		

### APPLICATION

AMSOIL SAE 30 Synthetic Diesel Oil is recommended in applications specifying the following:

- API Service CF, CF-2, SH, SJ, SL
- ACEA/CCMC D4, PD2
- MIL-L-2104F
- Caterpillar Powershift Trans. TO-2 and TO-3
- Allison C-3 and C-4
- Mack EO-L, EO-M
- M.A.N. 270
- Mercedes-Benz AG 227.0, 226.0
- Scania Long Drain
- Volvo VDS
- VW 505.00

### MIXING AMSOIL

AMSOIL Diesel Oil is compatible with petroleum lubricants; however, mixing AMSOIL Diesel Oil with a conventional oil will shorten the drain period of the AMSOIL Diesel Oil. Diesel oil additives or after-market products are not recommended for use with AMSOIL Diesel Oil.

### SERVICE LIFE

In diesel engines, fleet vehicle engines and industrial engines, such as stationary gasoline engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer as long as extended drains are supported by the findings of a used oil analysis program.

In personal cars and light trucks with non-turbocharged gasoline engines and marine craft: drain oil at intervals up to three times as long as those recommended by the engine manufacturer or at one-year intervals, whichever comes first.

In turbocharged gasoline engines: drain oil at intervals up to twice as long as engine manufacturers' recommended drain intervals or at one-year intervals, whichever comes first.

In high performance and racing engines: change oil based on the findings of oil analysis.

In motorcycles, ATVs and related gasoline engines: Without oil filtration, drain oil at engine manufacturer's recommended drain interval. With oil filtration, drain oil at intervals up to two times as long as those recommended by the engine manufacturers.

If the vehicle is equipped with an AMSOIL Oil Filter, the filter should be changed at 12,500-mile or six-month intervals (whichever comes first) in gasoline engines and 7000-mile or six-month intervals (whichever comes first) in diesel engines. Non-AMSOIL oil filters should be changed at the engine manufacturer's recommended filter change intervals.

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

