

Diesel Power



**SYNTHETIC
DIESEL OILS**



**DRIVETRAIN
FLUIDS**



**FUEL
ADDITIVES**



The First in Synthetics®

Advanced synthetic technology to protect today's most demanding diesels.



AMSOIL Synthetic Diesel Oils

AMSOIL introduced the world's first synthetic motor oil for diesel engines in 1975 and dramatically redefined the performance and protection available to diesel owners. Today, AMSOIL is the recognized leader in synthetic lubricant technology and offers a variety of exclusive synthetic diesel oil formulations, each tailored to meet the unique demands of modern, hard-working diesel engines. Diesel owners worldwide choose AMSOIL synthetic diesel oils for the extraordinary benefits they provide.

Protection and Performance

AMSOIL synthetic diesel oils reduce friction and wear better than conventional oils, helping hard-working diesel engines perform better and last longer. They withstand high-temperature breakdown to help prevent harmful deposits from forming, while remaining fluid in sub-zero temperatures for easier cold starts and faster circulation compared to conventional oils.

Maximum Fuel Economy

AMSOIL synthetic diesel oils' advanced lubricity (slipperiness) results not only in enhanced performance and protection, but increased fuel efficiency as well. With less resistance to internal moving parts, engines are able to operate at peak efficiency and deliver maximum mpg.

Extended Drain Intervals

AMSOIL coined the phrase "extended drain interval" nearly 40 years ago. Advanced chemistries allow extended-drain AMSOIL synthetic diesel oils to remain effective up to three times longer than original equipment manufacturer (OEM) recommendations. Diesel owners benefit significantly through reduced oil costs and increased convenience due to fewer oil changes and less used oil disposal.



AMSOIL Premium Synthetic Diesel Oil

- ✓ The premium choice for model-year 2007 and newer diesel engines requiring API CJ-4 oils
- ✓ Compatible with all exhaust treatment devices



AMSOIL 15W-40 Synthetic Heavy Duty Diesel and Marine Motor Oil

- ✓ Formulated with a high 12 Total Base Number to provide extended drain intervals
- ✓ Engineered for all on- and off-road diesel applications not equipped with diesel particulate filters (DPFs)



AMSOIL OE 15W-40 Synthetic Diesel Oil

- ✓ Provides excellent performance and protection for the duration of OEM-recommended drain intervals
- ✓ API CJ-4 certified



AMSOIL Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil

- ✓ Advanced fuel-efficient formula
- ✓ Delivers increased wear protection to help improve engine life



AMSOIL 10W-30/SAE 30 Synthetic Diesel Oil

- ✓ Exceeds both 10W-30 and SAE 30 viscosity requirements
- ✓ Excellent for both heavy equipment and personal vehicles

AMSOIL Air and Oil Filtration

Ea[®] synthetic technology reduces engine wear by providing ultra-high filtering efficiency for automotive/light-truck applications.



Engine Protection

Filters that trap a higher percentage of smaller wear particles provide increased engine protection. AMSOIL Ea Oil Filters trap and hold 98.7 percent of particles 20 microns and larger, while competitive filters demonstrate efficiencies as low as 51 percent.

AMSOIL by-pass filtration systems employ a secondary by-pass filter rated 98.7 percent efficient at two microns, nearly eliminating wear-causing particles.

AMSOIL Ea Air Filters' synthetic media traps and holds five times more dust than cellulose media alone and 50 times more than wet-gauze type media, helping stop dirt before it reaches the engine.

Extended Service

Used with AMSOIL synthetic motor oils, Ea Oil Filters have a maximum recommended service life of either 15,000 miles or 25,000 miles, depending on the application. Ea Air Filters provide 100,000 miles/four years of service with annual cleaning using a shop vacuum or compressed air. AMSOIL extended-service filters save motorists time and money.



AMSOIL Drivetrain Fluids

Premium synthetic drivetrain lubricants reduce wear, extend service life and maximize fuel economy.

Synthetic Transmission Fluids

AMSOIL synthetic transmission fluids withstand the rigors of high-horsepower/high-torque diesels better than conventional fluids. They maintain viscosity for reduced gear and bearing wear and increased equipment life. Their synthetic formulations resist oxidation, varnish formation and sludge build-up to provide superior cooling and lubrication.



Synthetic Gear Lubes

AMSOIL synthetic gear lubes protect heavily loaded differentials better than conventional lubes. Extreme-pressure formulations guard against metal-to-metal contact for maximum wear control. Their synthetic chemistries reduce friction and drag for increased fuel efficiency while providing extended drain intervals.



Synthetic Greases

AMSOIL synthetic greases are designed to resist friction and wear better than conventional greases. They seal out contaminants and provide superior lubrication in severe-service applications.



How does Compare to Other Brands?

Maximum Shear Stability

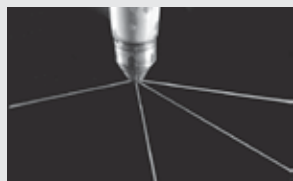
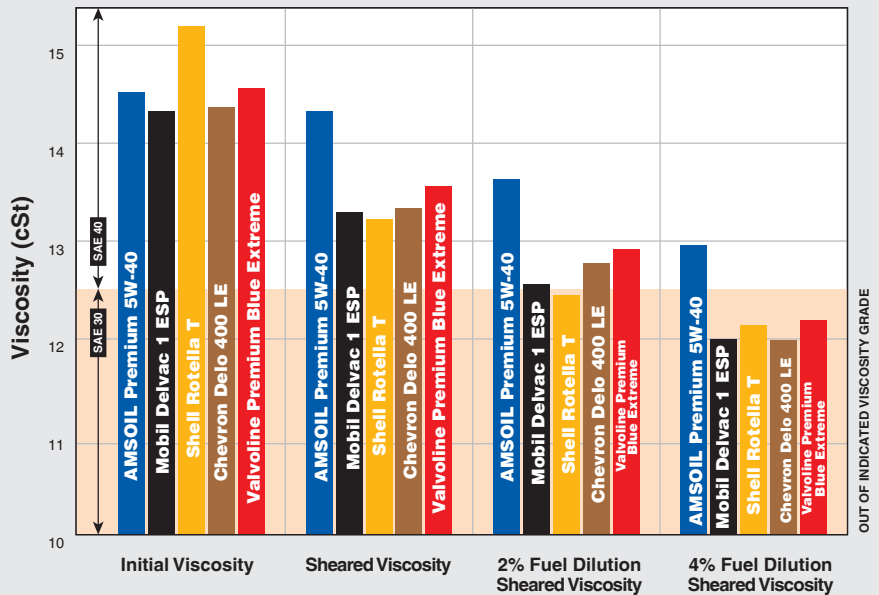
The severe environments found inside diesel engines can tear apart, or shear, the molecular structure of oil, leading to viscosity loss. Making matters worse, moderate levels of fuel dilution common in some applications impair an oil's ability to resist shear. Four percent fuel dilution is often enough to reduce an oil's sheared viscosity to less than its specified viscosity grade, leading to metal-to-metal contact and accelerated equipment wear.



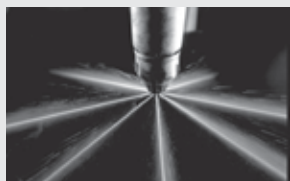
AMSOIL doubled the standard Kurt Orbahn 90-cycle test (ASTM D 6278) used to test shear stability and continued the testing to 180 cycles. Samples were then contaminated with 2 and 4 percent ultra-low-sulfur diesel fuel (ULSD). Even at 4 percent fuel dilution, AMSOIL Premium Synthetic Diesel Oil stayed in grade to maintain engine protection while the other oils failed.

Kurt Orbahn Shear Stability Test 180 Cycles

As tested in an independent lab November 2009. All oils 5W-40.



Dirty Fuel Injector Spray Pattern



Clean Fuel Injector Spray Pattern

Restored Horsepower and Fuel Economy

By cleaning dirty injectors, AMSOIL Diesel Concentrate helps ensure an even spray pattern for improved fuel economy up to 5 percent, as tested with the Cummins L10 Injector Deposit Test. Regular use enhances engine performance by keeping injectors clean, resulting in better fuel economy and restored horsepower.

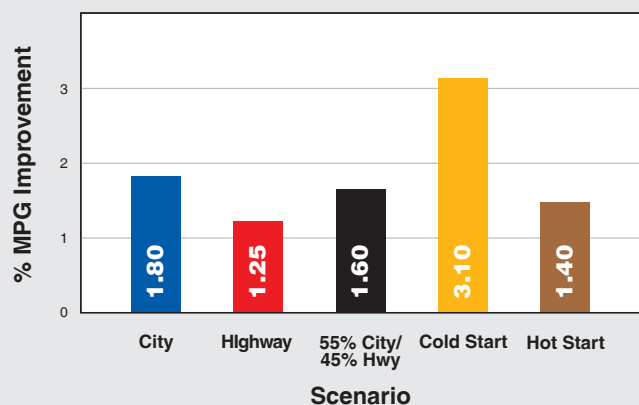


Increased Fuel Economy

The Environmental Protection Agency's (EPA) Federal Test Procedure (FTP) confirms that, when compared to conventional 15W-40 diesel oil, AMSOIL Premium 5W-40 Synthetic Diesel Oil improves fuel economy throughout virtually all driving scenarios. Operators save on fuel costs and reap the benefits of increased engine protection.



AMSOIL SAE 5W-40 Fuel Economy Results – FTP Cycle



How Does Save Motorists Money?

Maximum Miles Per Gallon

AMSOIL synthetic diesel oils' low coefficient of friction reduces friction-related energy loss, which increases fuel economy. In fact, the EPA's Federal Test Procedure confirms a 1.6 percent increase in fuel economy at a mix of 55/45 city/highway driving when using AMSOIL Premium 5W-40 Synthetic Diesel Oil in place of conventional 15W-40 diesel oils. Many AMSOIL users report even greater improvements. The result directly reduces fuel costs.

15,000 annual miles
@ **14 MPG**

1,071 gallons required
x **\$3.85 /gal.**

\$4,123.35 annual fuel cost



+1.6%
Increase in Fuel Economy

15,000 annual miles
@ **14.224 MPG**

1,054 gallons required
x **\$3.85 /gal.**

\$4,057.90 annual fuel cost

Extended Drain Intervals*

AMSOIL synthetic diesel oils neutralize acids, resist heat and control soot longer than conventional oils. Their premium synthetic chemistries allow motorists to safely extend drain intervals up to three times longer than OEM recommendations, saving money and time. Extended-drain savings can mount further when by-pass filtration and oil analysis are used.



Conventional Diesel Oil

\$3.89

x **12 quarts**

x **5** annual oil changes

\$233.40 oil cost /year

Based on 15,000 annual miles and 3,000-mile oil change intervals.



AMSOIL Premium Synthetic Diesel Oil

\$10.10


x **12 quarts**

x **1** annual oil change

\$121.20 oil cost /year

\$65.45 ANNUAL SAVINGS ON FUEL PER VEHICLE**

\$112.20 ANNUAL OIL CHANGE SAVINGS PER VEHICLE**

When combining fuel savings and extended-drain savings,  provides motorists a significant overall annual cost reduction.

\$177.65 ANNUAL SAVINGS PER VEHICLE**

*AMSOIL has documented high fuel dilution in 2007-present light duty diesel pickups (Dodge, Ford, and GM/GMC) equipped with diesel particulate filters. In these specific applications, AMSOIL recommends following the longest manufacturer-recommended drain interval. Oil drain intervals can be extended further with oil analysis.

** Examples only. Based on June 2012 figures and average U.S. on-highway diesel fuel price. Prices subject to change.

AMSOIL Diesel Fuel Additives & Engine Coolant



AMSOIL Cetane Boost

Improves combustion efficiency to help increase power in diesel engines. Raises cetane up to seven numbers.

AMSOIL Cold Flow Improver

Helps prevent icing or gelling in fuel. Reduces cold filter-plugging point as much as 34°F.

AMSOIL Diesel Concentrate

Cleans fuel system components, increasing fuel economy by up to 5 percent.

AMSOIL Diesel Concentrate Plus Cold Flow Improver

Reduces cold filter-plugging point while maximizing fuel economy in one convenient package.

AMSOIL Diesel Recovery

Quickly liquefies gelled diesel fuel, thaws frozen fuel filters and reduces the need for a new filter.

AMSOIL Antifreeze & Engine Coolant

Surpasses standards for metallic corrosion and provides superior cooling and protection for 250,000 miles/seven years in autos/light trucks.



Contact your AMSOIL Dealer for more information on AMSOIL products or to place an order. You may also order direct by calling AMSOIL INC. at 1-800-956-5695 and providing the referral number listed here. ▼

Referral # _____