

Over-the-Road Trucks



**SYNTHETIC
MOTOR OILS**



**FUEL
ADDITIVES**



**DRIVETRAIN
FLUIDS**

AMSOIL[®]

The First in Synthetics[®]

AMSOIL[®] premium synthetic lubricants, fuel additives and filters help decrease downtime and increase profits through better protection, extended drain intervals and increased fuel economy.

AMSOIL Synthetic Diesel Oils

You're faced with many challenges when it comes to running your trucking business: changing regulations, fuel costs and rising equipment costs are just a few. Getting more miles from your truck requires increased protection over a greater number of miles. In 1975 we were the first company to bring synthetic oil technology to the diesel market. AMSOIL has continued its commitment to helping trucking businesses lower costs by offering lubricants and fuel additives that exceed standards and provide the confidence of genuine performance and protection.

Protection and Performance

AMSOIL synthetic diesel oils are formulated with exceptional friction and wear reduction properties to help hard-working diesel engines perform better and last longer. They withstand high-temperature breakdown to help prevent harmful deposits from forming, yet remain 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. Motorists benefit significantly through reduced oil costs and increased convenience due to fewer oil changes and less used oil disposal.

AMSOIL Premium Synthetic Diesel Motor Oil is the premium choice for model-year 2007 and newer diesel engines requiring API CJ-4 oils. Available in 5W-40 and 15W-40.

AMSOIL 15W-40 Synthetic Diesel and Marine Oil is engineered with a high 12 total base number to provide exceptional performance and protection throughout extended drain intervals.

AMSOIL Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil is engineered for all on- and off-road diesel applications not equipped with diesel particulate filters (DPFs).

AMSOIL OE Synthetic Diesel Oil provides excellent performance and protection for the duration of OEM-recommended drain intervals. API CJ-4 certified. Available in 10W-30 and 15W-40.



AMSOIL Heavy-Duty Filtration

Premium air, oil and by-pass filtration saves truckers money through better protection and extended service life.

Maximum Protection & Service Life

Ea® Heavy-Duty Extended-Life Oil Filters feature full-synthetic media with an average filtering efficiency of 98.7 percent at 20 microns. They trap a larger percentage of small, wear-causing particles than less-efficient cellulose filters for maximum engine protection. They provide extended service intervals that coincide with the maximum drain intervals of AMSOIL synthetic motor oils and cost less than competitive extended-service oil filters.

By-Pass Filtration

AMSOIL By-Pass Oil Filters help reduce engine wear by providing a filtering efficiency of 98.7 percent at two microns, nearly eliminating wear-causing particles. Paired with oil analysis, AMSOIL by-pass filtration systems can extend drain intervals, increasing convenience and reducing costs.

AMSOIL also carries Donaldson® air and oil filters to complement the AMSOIL Ea filter line.



AMSOIL Drivetrain Fluids

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

Synthetic Transmission Fluids

AMSOIL synthetic transmission fluids reduce gear and bearing wear and can increase equipment life. By resisting oxidation, varnish formation and sludge build-up, they provide superior cooling and lubrication. Their synthetic chemistries maximize fuel efficiency and provide up to 500,000-mile drain intervals in OTR trucks with manual transmissions.

Synthetic Gear Lubes

AMSOIL synthetic gear lubes are formulated to protect heavily loaded gears better than conventional lubes. They reduce friction and drag to promote increased fuel efficiency. AMSOIL Long Life Synthetic Gear Lube provides drain intervals of up to 500,000 miles in OTR trucks.



Synthetic Greases

AMSOIL synthetic polymeric greases feature improved impact and washout resistance compared to conventional greases. They seal out contaminants and provide superior lubrication throughout extended service intervals.



How does the AMSOIL OTR Trucking Package Perform?

Increased Fuel Economy

The SAE J1321 In-Service Fuel Economy Test Procedure proves that the AMSOIL over-the-road trucking package increases fuel economy in diesel trucking applications. Premium 5W-40 Synthetic Diesel Oil, SAE 50 Long-Life Synthetic Transmission Oil and 75W-90 Long Life Synthetic Gear Lube were installed in a Kenworth® T800B truck pulling a 53' trailer. Several test runs completed simultaneously with a nearly identical truck and trailer using conventional fluids indicate the vehicle using AMSOIL realized a **6.54 percent increase in fuel economy**.

See the Diesel Fleet Fuel Economy Study (G2904) for complete details.



ENGINE

DIFFERENTIALS

TRANSMISSION

Exceptional Wear Protection

Modern manual transmissions and differentials installed in OTR trucks require advanced lubricants that protect heavily loaded components throughout extended 500,000-mile drain intervals. Inferior lubricants can break down before the drain interval is up, leading to wear and the formation of harmful deposits.

To prove their effectiveness, AMSOIL installed SAE 50 Long-Life Synthetic Transmission Oil and 75W-90 Long Life Synthetic Gear Lube in OTR trucks used in

real-world, heavy-duty service. After 512,000 miles, the transmission and differentials from a randomly selected truck were disassembled and rated for wear, pitting, scoring and other distress by an ASTM calibrated rater. Results prove both lubricants provided exceptional protection (see photos below).



Following 512,000 miles, the transmission's output shaft bearing demonstrated no pitting or scoring despite frequent high-load operation. It earned a high wear rating of 8 out of 10, indicating only trace-light wear.



The transmission's mainshaft input drive gear demonstrated no pitting or scoring despite 512,000 miles of rigorous use. The gear earned a high wear rating of 8 out of 10, indicating only trace-light wear.



The front differential ring gear encounters extreme pressure and sliding contact, inviting accelerated wear. AMSOIL 75W-90 Long Life Synthetic Gear Lube completely prevented pitting and scoring. The gear earned a nearly perfect wear rating of 9 out of 10, indicating only trace levels.

See the SAE 50 Long-Life Synthetic Transmission Oil Field Study in Over-the-Road Applications (G2961) for complete transmission disassembly results.

See the 75W-90 Long Life Synthetic Gear Lube Study in Over-the-Road Applications (G2975) for complete differential disassembly results.

How Does AMSOIL Save Fleets Money?

Maximum Miles Per Gallon

AMSOIL synthetic drivetrain fluids' low coefficient of friction reduces friction-related energy loss, which increases fuel economy. In fact, the SAE J1321 In-Service Fuel Economy Test Procedure confirms a 6.54 percent increase in fuel economy when using Premium 5W-40 Synthetic Diesel Oil, SAE 50 Long-Life Synthetic Transmission Oil and 75W-90 Long Life Synthetic Gear Lube in place of conventional fluids. The result directly reduces fuel costs.

120,000 annual miles
@ **6 MPG**

20,000 gallons required
X **\$4.14 /gal.**

\$82,800 annual fuel cost



120,000 annual miles
@ **6.39 MPG**

18,779 gallons required
X **\$4.14 /gal.**

\$77,745 annual fuel cost

+6.54%
Increase in Fuel Economy

Reduced Oil Costs

AMSOIL synthetic diesel oils neutralize acids, resist heat and control soot longer than conventional oils. Their premium synthetic chemistries allow owners and operators to safely extend drain intervals up to three times OEM recommendations, reducing downtime and cutting oil costs.

\$15.61 
Conventional Diesel Oil
X **10** gallons
X **8** annual oil changes
\$1,249 oil cost /year

\$28.95 
wholesale case pricing
AMSOIL Synthetic Premium Diesel Oil
X **10** gallons
X **3** annual oil changes
\$869 oil cost /year

Based on 120,000 annual miles and 15,000-mile OEM-recommended oil change intervals.

\$5,055 ANNUAL SAVINGS ON FUEL PER TRUCK*

\$380 ANNUAL OIL CHANGE SAVINGS PER TRUCK*

When combining fuel savings and oil change savings, AMSOIL provides a significant overall annual cost reduction.

ONE TRUCK

\$5,435
ANNUAL SAVINGS

10 TRUCKS

\$54,350
ANNUAL SAVINGS

50 TRUCKS

\$271,750
ANNUAL SAVINGS

100 TRUCKS

\$543,500
ANNUAL SAVINGS

Calculations do not include filter, labor or used oil disposal costs.

Less labor hours spent changing oil and less used oil disposal make AMSOIL even more cost-effective.

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

AMSOIL Diesel Fuel Additives & Engine Coolant



AMSOIL Diesel Cetane Boost

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

AMSOIL Diesel Cold Flow

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

AMSOIL Diesel Injector Clean

Cleans fuel system components, increasing fuel economy by up to 4.5 percent.

AMSOIL Diesel Injector Clean + Cold Flow

Reduces cold filter-plugging point while also 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 750,000 miles/seven years in OTR diesel trucks.



Contact your full-service 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 # **1381649**