

The First in Synthetics ®

Four-Wheel Drive Vehicles



AMSOIL synthetic lubes deliver maximum power, outstanding fuel economy and the rugged protection 4-wheel drives need.

AMSOIL Synthetic Motor Oils

Four-wheel drive vehicles are often subjected to periods of heavy throttle application, towing and dirty, off-road driving. These harsh operating conditions mean four-wheel drive vehicles demand extra protection from a motor oil. AMSOIL synthetic motor oils are formulated with the most advanced chemistries available. High quality base stocks combined with an exact blend of premium additives, provide second-to-none protection and performance in the most demanding operating conditions.

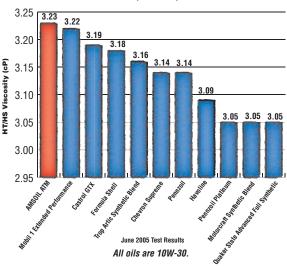
Clean All-Temp Protection

AMSOIL synthetic motor oils not only run clean in high temperatures, they actually help hold down engine heat during high stress operations. In cold temperatures, AMSOIL synthetic motor oils flow readily, providing dependable starting and quick post-startup protection.

Load Protection

Towing and travel over rough terrain put extra load on the engine. AMSOIL synthetic motor oils provide an extremely durable lubricating film, one that's tough to break no matter how heavy the load. A robust package of anti-wear additives insures protection against accelerated wear during high load operation. The shearing forces generated inside today's high RPM automobile engines can literally tear apart the molecules of conventional oils. AMSOIL synthetic motor oils, because of their unique synthetic construction, withstand shearing forces. AMSOIL motor oils don't thin out and lose viscosity like conventional oils do.

High Temperature/High Shear

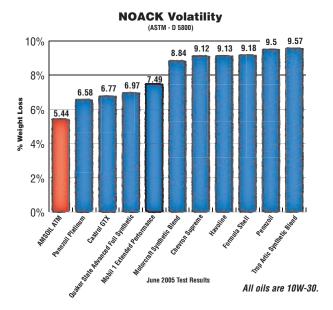


The High Temperature/High Shear Test measures a lubricant's viscosity under severe high temperature and shear conditions that resemble highly-loaded journal bearings in fired internal combustion engines. In order to prevent bearing wear, it is important for a lubricant to maintain its protective viscosity under severe operating conditions.

Resist Volatilization

The unbalanced hydrocarbon structure of conventional petroleum-based motor oils contains molecules of many different shapes and sizes. In high temperatures the lighter molecules tend to vaporize, leading to oil consumption, oil thickening and a loss of performance. AMSOIL synthetic motor oils don't burn off during high-temperature, high-stress operation. Their pure, uniform molecules





The NOACK Volatility Test determines the evaporation loss of lubricants in high temperature service. The more motor oils vaporize, the thicker and heavier they become, contributing to poor circulation, reduced fuel economy and increased oil consumption, wear and emissions.

provide an unsurpassed level of stability, even under the most extreme operating conditions.

Power and Fuel Economy

Conventional motor oils tend to "boil off" in high temperatures. Vaporized oils grow thick and heavy. They circulate poorly, reduce fuel efficiency and contribute to excessive emissions and engine wear. Of course, oil consumption skyrockets as oil boils off.

AMSOIL synthetic motor oils' superior vaporization resistance keeps fuel economy high, oil circulation efficient, and oil consumption, emissions, and most importantly, engine wear, to a minimum. AMSOIL synthetic motor oils allow engines to run smoother and easier, producing more power and performance and better fuel economy.

Resist Oxidation

Conventional oils oxidize at high temperatures, causing sludge and deposit build-up that decrease fuel efficiency, contribute to corrosion and increase engine wear. AMSOIL synthetic motor oils resist oxidation and thermal breakdown far better than conventional oils. Because AMSOIL motor oils' synthetic formulation resists oxidation so well, they run naturally cleaner than conventional oils. AMSOIL motor oils have a superior detergent/dispersant additive package that, when tested after tens of thousands of miles of use in the crankcase, still exhibits outstanding deposit control.

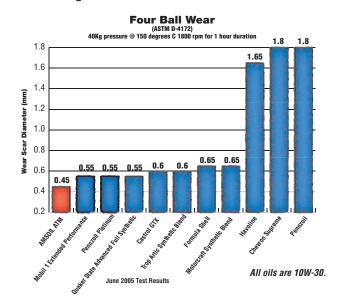


Save Money

Reduced maintenance costs through better protection, fewer new parts to buy and extended drain intervals save 4x4 owners hundreds, sometimes thousands of dollars every year.

Reduce wear

The primary function of oil is to prevent friction and wear. AMSOIL synthetic motor oils are made from the finest synthetic base stocks and most advanced additive packages. The uniform molecular structure of AMSOIL synthetic motor oil ensures their durability and effectiveness. The additives protect engines by bonding to metal surfaces and forming a protective film layer between moving parts that are vulnerable to friction and wear when an engine is first started and before the oil begins to circulate completely. AMSOIL synthetic motor oils provide the ultimate in wear protection in high stress and heavy load driving conditions.



The Four Ball Wear Test determines the wear protection properties of a lubricant. The smaller the average wear scar, the better the wear protection provided by the lubricant.

AMSOIL Oil and Air Filters

Ea Air Filters

AMSOIL Ea Air (EaA) Filters feature exclusive nanofiber technology that delivers more efficiency, higher capacity and optimum air flow. Nanofiber technology has been used exclusively in heavy-duty applications, including the US ARMY Abrams M1 tank. AMSOIL has brought this technology to the auto/light truck market. With AMSOIL Ea Air Filters, dust and submicron particles remain on the surface and are trapped in the nanofibers, preventing particles from lodging in the filter media depth. This produces higher efficiency and higher capacity which extends engine and filter life and reduces engine wear.

Ea Oil Filters

AMSOIL Ea Oil (EaO) Filters offer the highest efficiency rating in the industry. Their small synthetic nanofibers trap smaller particles and hold more contaminants, resulting in lower restriction. AMSOIL EaO Filters have a far greater capacity than competing filter lines. When used in conjunction with AMSOIL synthetic motor oils in normal service, EaO Filters are guaranteed to remain effective for 25,000 miles or one year, whichever comes first.

AMSOIL Ea By-Pass Filters

AMSOIL Ea By-Pass (EaBP) Filters provide higher filtering efficiency, soot removal and increased oil capacity due to new media composition and configuration. AMSOIL EaBP Filters have an efficiency of 98.7 percent at two microns. At normal operating RPMs the EaBP Filter will filter all of the oil in a typical five quart sump in less than 10 minutes. The superior construction of AMSOIL EaBP Filters provides better sealing and increased longevity along with superior corrosion resistance.

Dual Remote Filtration

The Dual Remote Filtration system provides maximum protection and maximum convenience. A

single mount holds an AMSOIL Ea By-Pass Filter and an AMSOIL Ea Oil Filter in one location. Place the mount anywhere near the engine for easy access.

Donaldson Filtration Products

AMSOIL offers filtration products for four-wheel drive vehicles from Donaldson®, a world leader in filtration.



Donaldson Endurance™ filters provide the highest level of filtration efficiency in the industry. Endurance filters are made with advanced synthetic and nanofiber technology that results in fibers that have a controlled size, down to submicron diameters. It is this nanofiber technology that provides higher efficiency and greater capacity to better protect fourwheel drive vehicles.

AMSOIL also carries premium air filters that utilize PowerCore filtration technology. The rugged structure of PowerCore filters features an innovative, layered, fluted filter media, which allows air to enter an open flute while forcing it out an adjacent flute, allowing only clean air into the engine. Dirty air is effectively filtered and cleaned in only one pass through the media. PowerCore filters are available for Ford 6.0L Power Stroke™ Diesel and GM H2 Hummer 6.0L Vortec™ four-wheel drive vehicles. An air induction system for Ford 7.3L Power Stroke™ Diesels featuring PowerCore technology is available as well.

- Higher Efficiency
- Greater Capacity
- PowerCore Filtration Technology
- By-Pass Filtration



AMSOIL Synthetic Gear Lubes



AMSOIL synthetic gear lubes deliver the rugged protection four-wheel drive differentials and manual transmissions need.

Power and Fuel Economy

Low-friction AMSOIL synthetic gear lubes maximize power output and minimize heat buildup. This means less energy spent on friction, and more used for maximum four-wheel drive power and top fuel economy.

Load Protection

AMSOIL synthetic gear lubes bear the brunt of high-load stress so gears don't. AMSOIL synthetic gear lubes' naturally high film strength and tough extreme-pressure agents shield components from premature wear.

All-Season Performance

AMSOIL synthetic gear lubes have a high viscosity index rating. That means they won't become waxy in low temperatures and they'll remain viscous enough to protect engines in extreme heat.

Clean Running

Stable even in extreme heat, AMSOIL synthetic gear lubes resist oxidation and thermal breakdown, helping gears stay free of sludge and other deposits.

AMSOIL SEVERE GEAR Synthetic Extreme Pressure Lubricants

AMSOIL Severe Gear Synthetic Extreme Pressure (EP) Lubricants (SVO & SVG) are premium grade lubricants specifically engineered for maximum performance in severe duty applications. Severe Gear features an exclusive blend of high viscosity, shear stable synthetic base oils and an extra treathigh-performance ment of additives. AMSOIL Severe Gear Synthetic EP Lubricants maintain their viscosity for long-lasting protection against metal-to-metal con-

tact. AMSOIL Severe Gear lubricants are designed to provide better performance and excellent protection during temperature extremes.

- Superior film strength
- Prevents thermal runaway
- Rust and corrosion protection
- Reduced operating temperatures
- Improved efficiency
- Longer oil, seal and equipment life



AMSOIL Synthetic Automatic Transmission Fluid

AMSOIL Synthetic ATF delivers unmatched protection and performance for automatic transmissions and ATF-filled manual

transmissions and transfer cases.

Power and Protection

AMSOIL Synthetic ATF works as a powerful friction reducer, saving fuel and maximizing performance. AMSOIL Synthetic ATF's tough, durable lubricating film and anti-wear additives protect components from wear-promoting contact, even during high load operations.



ATF

All-Season Performance

AMSOIL Synthetic ATF not only performs under extreme hot and cold conditions, it inhibits excessive heat buildup, enhancing performance and prolonging component life.

AMSOIL ATF helps prevent component overheating and ensures cooler, smoother transmission operation.

Promotes Cleanliness

AMSOIL ATF is two times more oxidation resistant than conventional transmission fluids, even under the toughest heavy towing and high temperature conditions. It protects clutches, planetary gears, valves, pumps and seals from damaging sludge and varnish deposits. AMSOIL ATF helps to keep components clean, ensuring long life and top performance.

Smooth Shift Performance

AMSOIL ATF provides smooth shifting and long, trouble-free transmission life. In addition, the antiwear additive package makes AMSOIL ATF an excellent lubricant in other hydraulic systems.

- Resists Oxidation and Thermal Degradation
- Provides All-Season Protection
- Anti-Wear Protection
- Extended Drain Intervals
- Outstanding Performance in Transmissions, Power Steering and Hydraulic Applications



AMSOIL Synthetic Greases

Four-by-fours rely on a little extra performance from their wheel bearings, U-joints and suspension points. AMSOIL synthetic greases provide unparalleled protection under any conditions, even when wet.

Load Handling

The protective lubricating film of AMSOIL synthetic greases coupled with robust extreme pressure additives makes metal-on-metal contact and premature wear a thing of the past, even during high load conditions.

AMSOIL Synthetic Heavy Duty Grease contains 'moly' for extra protection of heavily loaded components, such as steering knuckles and spring shackles.

Heat and Speed

Synthetic oils' natural resistance to thermal and oxidative breakdown and their ability to keep temperatures from climbing excessively make AMSOIL synthetic greases ideal for high temperature service.

High Heat and Load

AMSOIL Series 2000 Synthetic Racing Grease combines the high temperature protection of a multi-purpose grease with the load-handling

capabilities of a heavy-duty grease, making it ideal for the protection of all low and high speed components – steering knuckles, spring shackles, wheel bearings and more.

Keeps Water Out

Synthetic oils give AMSOIL greases a high affinity for metal. They cling tenaciously even when exposed to water. Their anti-rust agents provide effective protection against corrosion.

AMSOIL Water Resistant Grease is specially formulated for resistance to water washout and spray-off. It offers the ultimate protection for wheels frequently exposed to water.







-WHEEL DRIVE PRODUCTS 7





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

