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FALL 2025

SPEED AND MANEUVERABILITY

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Screamin' Eagle SYN3 purchased on 1/26/24
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FALL 2025

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THE COVER

Launching this fall, the new AMSOIL mobile app is designed to put the full AMSOIL experience in your hands.

SPEED AND MANEUVERABILITY

New AMSOIL App Coming Soon

We have stepped up our online ordering experience in recent years to help make your oil-change experience faster and more convenient. Examples include AMSOIL oil-change kits and the Shop by Vehicle tool at AMSOIL.com/AMSOIL.ca. Now AMSOIL is launching an app that promises to further enhance online ordering with a new level of speed, ease and convenience.

Launching this fall, the new mobile app is designed to put the full AMSOIL experience in your hands. Packed with innovative features, the AMSOIL app will empower you to shop smarter and faster, seamlessly manage vehicle maintenance and stay in the loop on the latest promotions and maintenance tips.

Faster, Smarter

The AMSOIL app delivers all the functionality of our website, but with additional personalization and ease-of-use features. The app will feature one-tap access and a user-friendly interface that streamlines the ordering experience.

Whether searching for motor oil, tracking vehicle maintenance or staying updated with the latest promotions, the app puts everything in your hand, whether you're on the couch, in the garage or on the go. Its intuitive interface places critical tools where they can easily be found.

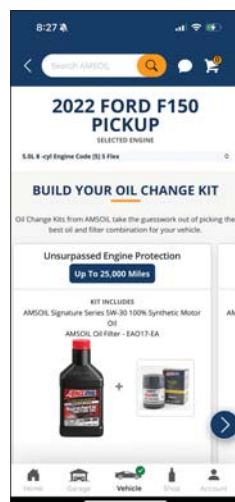
For fast access, the app supports biometric features like touch ID and face ID. This means you can effortlessly log in with a single fingerprint or glance at your phone, enhancing both security and convenience.

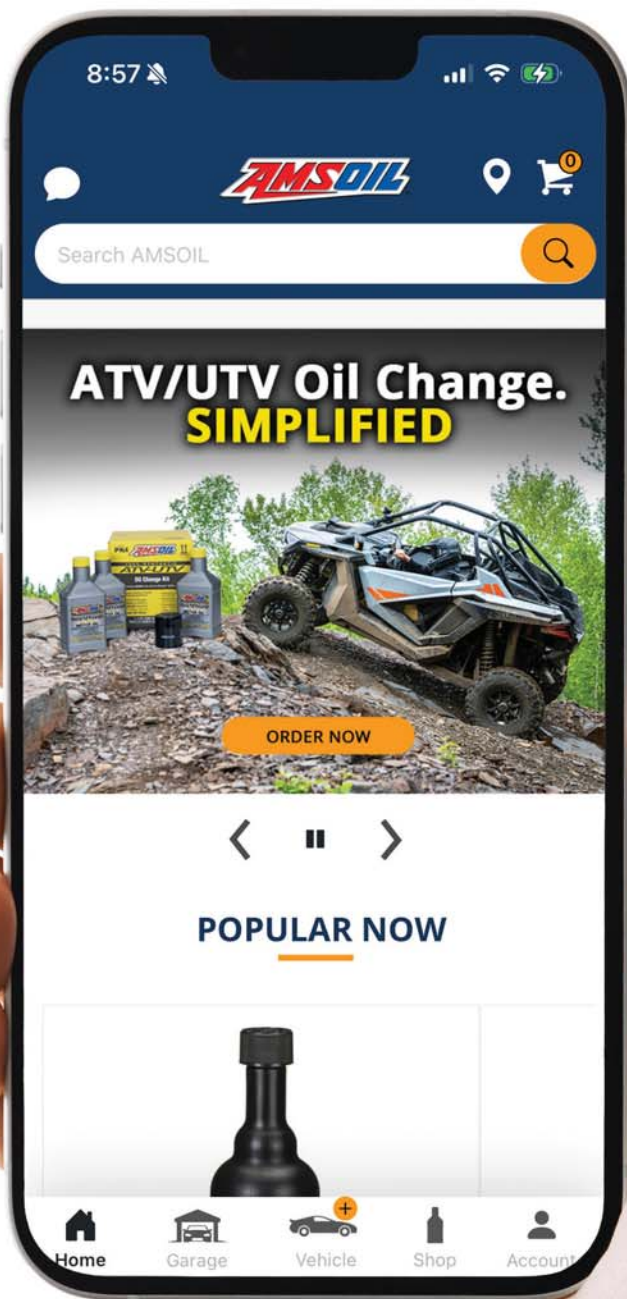
A Powerful Tool

The AMSOIL app is more than a mobile storefront; it's a comprehensive tool designed to simplify vehicle care.

The Shop by Vehicle tool at AMSOIL.com/AMSOIL.ca allows you to enter your vehicle details or license-plate number and state to see exactly what you need to order, including oil-change kits with the correct type and amount of oil and filter needed for a complete oil change, fuel filters, fuel additives, cleaners, protectants and other maintenance products. Now the AMSOIL app is taking things a step further.

The app version of the Shop by Vehicle tool allows you to use your phone to snap a photo of your license plate or VIN and instantly retrieve vehicle details. This feature will save time and improve confidence as you build your product order.





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Orders below \$100 (\$130 Can.) pay a flat shipping rate of \$9.99 (\$12.99 Can.).

MyGarage Access

The app fully syncs with MyGarage, a platform designed to track and manage vehicle-maintenance schedules.

The app allows you to:

- Add vehicles by typing or taking a photo of your license-plate number and state or VIN.
- Set up push notifications for reminders about oil changes and other essential maintenance.
- Keep all vehicle-maintenance records in one place.

These features help ensure you will never miss a beat when it's time to perform maintenance or reorder products.



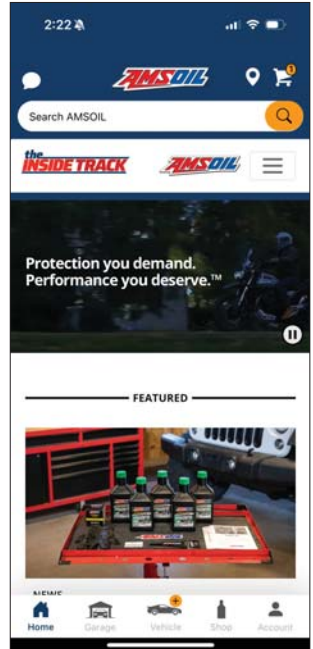
Push Notifications

The AMSOIL app helps keep you in the loop on the latest from AMSOIL.

You will be the first to hear about:

- New product launches.
- Special offers.
- Vehicle-maintenance alerts.

Push notifications help you stay on top of maintenance by reminding you when that time has come around again.

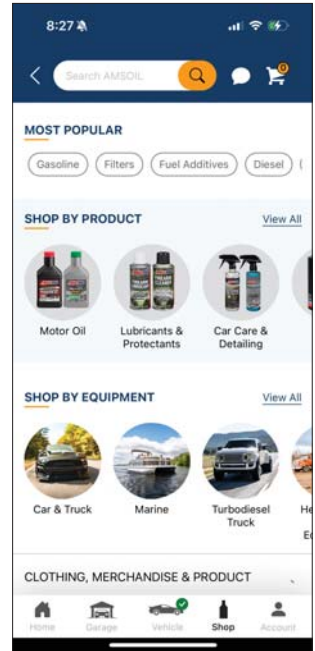
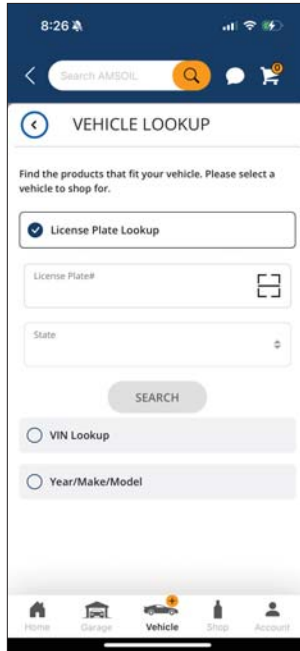


The Inside Track

The Inside Track blog is fully integrated into the app, allowing you to explore articles on vehicle and equipment maintenance, influencers, events and in-depth product insights, all while on the go. A powerful search function ensures you can quickly find the information you need.

Enhanced Shopping

Shopping in the AMSOIL app makes product discovery and checkout more efficient than ever. The app organizes our extensive product lineup into easy-to-navigate carousels, letting you browse by product category, such as gasoline, diesel and powersports. Whether you need products for your lawnmower, snowmobile or pickup truck, the app ensures you will find exactly what you need with minimal effort.



The app's shopping cart automatically adjusts to reflect your previous purchases and preferences, ensuring a personalized experience. Its streamlined design includes intuitive navigation through its footer menu, with quick access to all necessary tools. The footer menu dynamically changes based on your selected vehicle, further enhancing personalization.

Expanded Search

Unlike web-based searches, the AMSOIL app offers a native search experience with trending suggestions that help you find products faster. This level of refinement ensures time spent searching is kept to a minimum.



ULTIMATE COMPANION

The new AMSOIL app simplifies your shopping experience by consolidating vital tools and resources into one convenient platform that fits in your hand, making it the ultimate AMSOIL companion.

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AMSOIL PARTNERS WITH THE FREEDOM FACTORY

AMSOIL has partnered with the Freedom Factory, a 3/8-mile asphalt oval racetrack in Bradenton, Fla. owned by multi-discipline motorsports enthusiast and YouTube sensation Cleetus McFarland. Freedom Factory events frequently feature influencers competing against professional racers, including a recent Freedom 500 win by racing legend Travis Pastrana in an AMSOIL-sponsored car.

The Freedom Factory hosts more than 20 diverse enthusiast events each year, including burnout, drift, circle track and spectator drag-racing and car shows. As the official oil of the Freedom Factory, AMSOIL logos will be prominently displayed on track signage, social-media content and all Crown Victoria* race cars used in the Freedom 500, 2.4hrs of LeMulleys and Cleetus McFarland Driving Experience. AMSOIL products will also be installed in the race cars and other vehicles and equipment at the track.

The AMSOIL-sponsored cars will also be raced in Cleetus McFarland events at other tracks, including the Indy 800 at Indianapolis Raceway Park, Ind. and the New England 900 at Stafford Motor Speedway, Conn.

Be sure to follow AMSOIL and the Freedom Factory on social platforms to find out where you can catch all the racing action online or in person.

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Superior Oil Filtration

AMSOIL Oil Filters (EAO/EA15K) feature advanced, full-synthetic media that traps and holds a greater amount of small, wear-causing contaminants compared to conventional filters. They provide extended service intervals for increased convenience while helping reduce engine wear.

High Efficiency

Efficiency is a filter's ability to capture contaminants. The more efficient a filter is, the more contaminants it will remove from oil. AMSOIL Oil Filters provide a filtering efficiency in accordance with industry standard ISO 4548-12 of 99% at 20 microns – one of the best ratings on the market. Some competitors also claim 99% efficiency, but at larger particle sizes of 30 to 40 microns.

Less Restriction

Proper oil flow is essential to keep engine parts lubricated at all times. AMSOIL Oil Filters' synthetic fibers are smaller than the fibers used in traditional filters, allowing for lower restriction which decreases engine wear. Our filters allow oil to flow through more easily than a typical cellulose filter does during cold-temperature warm-ups.

Contaminant Retention

A filter's capacity refers to the amount of contaminants it can hold and still remain effective. AMSOIL Oil Filters have a greater capacity for small, wear-causing contaminants than competing filter lines. They last longer and ensure the oil is properly filtered.

Superior Construction

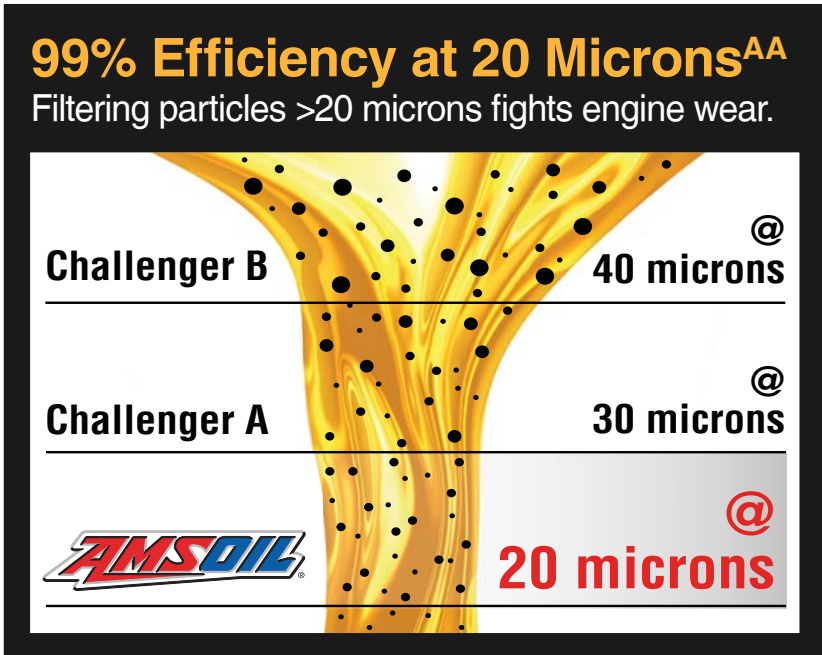
AMSOIL Oil Filters are made with premium-grade full-synthetic media. The strictly controlled processing of this media ensures accurate filter construction and delivers higher capacity and efficiency along with better durability.

Our full-synthetic media technology is resin-free to resist degradation from hot oil. It features a rigid mesh material that is pleated with the media for superior strength.

AMSOIL Oil Filters are constructed with nitrile gaskets that remain flexible and have been tested to extreme distances in severe environments. They feature fully tucked seams, a molded element seal, roll-formed threads and a long-lasting, premium-grade silicone anti-drainback valve.

Easy-Grip Coating

AMSOIL Oil Filters feature a textured coating to ease installation and removal.

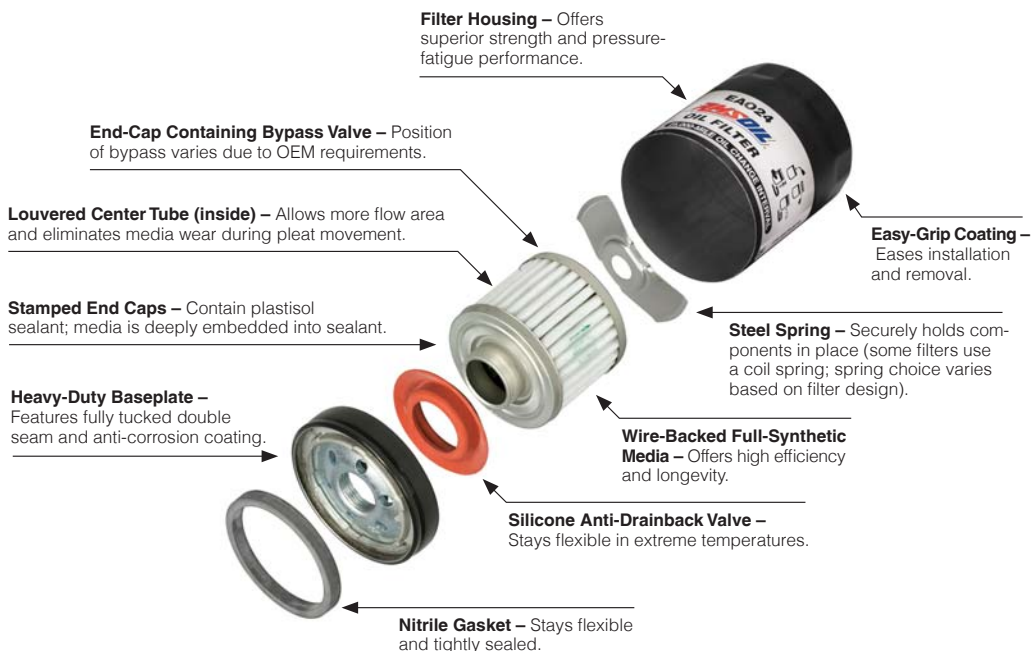


^{AA}In accordance with industry-standard ISO SO 4548-12.

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Service Life

When used in conjunction with AMSOIL synthetic motor oils, AMSOIL Oil Filters are guaranteed for extended service life:

- Filters designated with product code EA15K are recommended for 15,000 miles (24,000 km) or one year, whichever comes first, in normal or severe service.
- Filters designated with product code EAO are recommended for 25,000 miles (40,000 km) or one year, whichever comes first, in normal service or 15,000 miles (24,000 km) or one year, whichever comes first, in severe service.
- NOTE: Change oil filter at every oil change.

Consult the AMSOIL Product Guide, AMSOIL Online Filter Cross-Reference or MyGarage at AMSOIL.com/AMSOIL.ca to determine the appropriate filter for each application. When AMSOIL Oil Filters are used with a motor oil other than AMSOIL synthetic motor oil, the filter should be changed according to the vehicle manufacturer's recommendation.

Most AMSOIL Oil Filters feature a reference arrow to aid in proper installation. Once the filter is finger tight, it is easy to gauge the additional .75 to 1.25 turns required to ensure a good fit. Over-tightening can lead to leakage.

Note: The reference arrow is unavailable on a select few AMSOIL Oil Filters.



More Premium Filters



AMSOIL Heavy-Duty Extended-Life Oil Filters (EAHD)

Provide excellent 99% filtering efficiency at 20 microns and high contaminant capacity for heavy-duty on- and off-road diesel and gasoline applications. Provide extended service intervals that coincide with the maximum drain intervals of AMSOIL synthetic engine oils.



AMSOIL Bypass Oil Filters (BMK)

High-efficiency bypass filters effectively remove minute dirt particles and soot by working in conjunction with the engine's full-flow oil filter.



AMSOIL Motorcycle Oil Filters (EAOM)

High-efficiency filters available for the motorcycle and powersports market. Provide excellent 99% filtering efficiency at 20 microns. Available in black or chrome (as available).

Donaldson®
Filtration Solutions

WIX
FILTERS

**MANN
FILTER**

Aftermarket Partners

AMSOIL also offers premium filtration products from its aftermarket partners, including Donaldson, WIX and MANN FILTER.

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Unbreakable Timing Chain Protection

There is an essential component to the operation of any engine that often goes unnoticed until trouble strikes — the timing chain. But like any component, the timing chain can wear, leading to expensive issues or even catastrophic engine failure.

The timing chain provides a mechanical linkage that ensures all moving parts work in perfect harmony. It connects the camshaft, which controls the opening and closing of the valves, to the crankshaft, which is attached to the pistons. In this way, the timing chain ensures that fuel and air enter the engine and exhaust gases exit in sync with the motion of the pistons.

Unlike timing belts, which are made of rubber and require periodic replacement, timing chains are constructed from durable metal links, much like a burly bicycle chain. Timing chains are housed inside the engine where they are protected from contamination and lubricated by engine oil to reduce friction and wear. This design allows them to last significantly longer, hopefully for the life of the vehicle, provided they are properly maintained.

However, even with their robust design, timing chains are not immune to wear. Over time, factors such as

extreme use, insufficient lubrication, soot buildup, high mileage or poor maintenance can lead to issues like chain stretch or damage to the tensioners and guides. These problems can disrupt the engine's timing, leading to symptoms such as rough idling, engine misfires or even catastrophic failure.

Timing-chain stretch

Timing-chain stretch, when the chain lengthens beyond its original specification, is a common issue. This elongation can disrupt the precise timing of the engine, throwing off synchronization and leading to poor engine performance. The leading culprit? Soot in the motor oil.

Although most people associate soot with old-fashioned diesel engines, modern turbocharged gasoline-direct-injected (T-GDI) engines can produce more soot than older diesels not equipped with a particulate filter.

Soot can accumulate in the motor oil of T-GDI engines. The tiny particles can agglomerate into larger, wear-causing particles that cause problems inside the engine before the oil filter has a chance to capture them. These particles appear to be causing accelerated timing-chain stretch on some vehicles. In fact, Ford* issued a technical service bulletin (#14-0194)

in 2020 that acknowledged timing-chain wear as a problem in certain vehicles equipped with its popular 3.5L EcoBoost* engine (the problem has since been resolved).

Soot particles can lodge in the tiny clearances between the links and pins of the timing chain. They slowly scour the metal surfaces as the engine is running, enlarging the clearances. After a while, the timing chain elongates. It doesn't actually "stretch" like a rubber band. Instead, the enlarged clearances between the links and pins create slack, effectively increasing the chain's length. While the tensioner can take up some of the slack, it has its limits.

If the chain stretches beyond the capability of the tensioner, the camshaft and crankshaft sensors can trigger an engine code and even send the engine into "limp" mode. Other issues include worn sprockets, faulty tensioners and chain slack.

Once slack or damage has developed, it can cause the timing chain to jump teeth on its sprockets, which may result in valve or piston damage and, in severe cases, catastrophic engine failure.

Warning signs

Detecting timing-chain problems early can prevent major repairs down the road. Some of the most common warning signs include...

Unusual noises

A rattling or clanging noise, especially at startup, is often a telltale sign of timing-chain slack or failing tensioners.

Engine misfires or rough idling

A stretched timing chain can disrupt the engine's firing sequence, leading to misfires or unstable engine performance, particularly during idling.

Check engine light

If your check engine light comes on, it's worth investigating whether the timing chain could be the culprit.

Poor performance

A timing-chain problem may reduce engine power, fuel efficiency or overall performance, making it more difficult to accelerate or maintain speed efficiently.

The Role of Motor Oil

Timing chains depend on proper lubrication to reduce friction and wear between the chain links, sprockets and tensioners. Without adequate lubrication, these components can overheat and wear prematurely.

If you drive a T-GDI engine that's known to suffer from timing-chain stretch, it's a smart move to use a premium synthetic oil and a high-quality oil filter to help fight soot-induced timing-chain wear.



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To combat the issue of soot, the industry developed the Sequence X Engine Test (ASTM D8279) specifically to measure an oil's ability to resist soot and fight timing-chain stretch. It's part of the API SP and ILSAC GF-6 motor oil specifications introduced in May 2020 and the latest API SP and ILSAC GF-7 specifications released in March 2025.



The test uses a Ford 2.0L EcoBoost engine run a total of 216 hours throughout a series of cycles. The timing chain is measured after break-in and again following the test. The pass/fail criteria is $\leq 0.085\%$ timing-chain elongation.

AMSOIL Protection

AMSOIL Signature Series 100% Synthetic Motor Oil, Extended Life 100% Synthetic Motor Oil and OE 100% Synthetic Motor Oil all passed the Sequence X Engine Test, proving their excellent protection against timing-chain stretch. These oils guard against timing-chain wear in modern T-GDI engines to help prevent timing-chain stretch.

AMSOIL synthetic motor oils protect timing chains on several fronts:

1. Enhanced wear protection

AMSOIL synthetic motor oil uses naturally shear-resistant base oils combined with top-tier, shear-stable viscosity improvers that withstand extreme heat and shearing forces. Robust anti-wear additives further reduce wear in metal-to-metal contact regions for maximum component life. The result? Signature Series 100% Synthetic Motor Oil provides 75% more engine protection against wear and horsepower loss¹ than required by a leading industry standard.

2. Outstanding engine cleanliness

Sludge is a thick, dark residue composed of combustion or oxidation byproducts. It can also be formed by wear particles, water, fuel and coolant. These contaminants are often acidic and have polarity within their molecular structure, meaning they are insoluble in motor oil. Signature Series provides 90% better protection against sludge² and is fortified with a heavy treatment of detergent additives, delivering 28% more acid-neutralizing power than Mobil 1,* helping engines stay cleaner, longer.³

3. Superior thermal durability

Whether starting an engine in extreme cold or towing in sweltering heat, the timing chain needs to remain protected. AMSOIL Signature Series provides better cold-cranking viscosity, helping improve wear protection for engine components at startup,⁴ while its superior thermal durability and shear-stable formula maintain protection under extreme heat and pressure.

Chain reaction

While often overlooked, the timing chain plays a crucial role in engine performance. Staying alert to potential problems and responding quickly can help avoid major repairs or even catastrophic engine failure. AMSOIL motor oils provide excellent protection for timing chains and other components, helping ensure engine performance, reliability and longevity.

¹Based on independent testing of AMSOIL Signature Series 0W-20 using the ASTM D6891 standard test. ²Based on independent testing of AMSOIL Signature Series 5W-30 in the ASTM D6593 engine test for oil screen plugging as required by the API SN specification. ³Based upon independent testing of Mobil 1 Annual Protection Full Synthetic 5W-30 and AMSOIL Signature Series 5W-30 in ASTM D2896. Oils purchased July 2020. ⁴Based on independent third-party testing in the industry-standard ASTM D5293 Cold Crank Simulator test as required by SAE J300.



Synthetic Lubricants Resist Sludge Better than Conventional Oils

Sludge is the result of insoluble debris overloading the lubricant.

Alex Thompson | DIRECTOR, PRODUCT MARKETING – AUTOMOTIVE & COMMERCIAL PRODUCTS

Anyone who has purchased a new vehicle knows its value depreciates the instant it's driven off the lot. In some ways, lubricants behave the same way. Once you install an oil or transmission fluid, it begins to age, especially conventional lubricants.

Oxygen reacts with the lubricant and results in a permanent chemical change where oil picks up oxygen and gets thicker. Just like oxygen attacks metal surfaces and causes corrosion, it negatively affects lubricants and reduces their ability to lubricate, cool and protect components. Excessive heat speeds the oxidation process. In fact, every 18°F (10°C) increase in temperature doubles the rate of oxidation.

Adding to the challenge, contaminants begin to form during normal operation. In engines, hot combustion gases can blow by the piston rings and contaminate engine oil. Glycol from engine coolant, water that forms with temperature fluctuations, soot (in diesels) and fuel are other common contaminants that affect lubricants. Left unchecked, contaminants accelerate chemical reactions, which overloads the lubricant and causes the formation of sludge – a gelatinous substance that wreaks havoc in engines.

Sludge can block the oil passages and oil-pump pick-up screen, resulting in oil starvation. You don't have to be an engineer to know what eventually happens to an engine that runs without oil. Often, the negative effects are cumulative rather than sudden. Many engines with variable valve timing (VVT) use oil-pressure-operated mechanical devices to change valve timing, duration and lift. Sludge can plug the solenoid screen or oil galleries and impact the operation of VVT mechanisms, eventually leading to a costly repair bill. Sludge reduces efficiency and increases time and money spent on maintenance.

Although we typically associate sludge with engines, it also affects transmissions, particularly those used in severe-service applications. Modern automatic transmissions feature a dizzying array of oil passages, gears, clutch packs and electronics. A steady supply of clean, high-quality transmission fluid is vital to getting the most out of your transmission. Sludge can

clog the narrow oil passages and cause delayed or elongated shifts. Just as in engines, severe cases of sludge in transmissions can plug filters, leading to starvation and catastrophic failure.

Given the laws of chemistry, it seems nearly impossible to protect your vehicles against sludge, especially since modern engines and transmissions run hotter than their predecessors. But the good news is high-quality synthetic lubricants resist the tendency to form sludge while extending oil service.

As you may suspect, synthetic base oils do a better job resisting sludge than conventional base oils because they are naturally more resistant to oxidation. AMSOIL synthetic lubricants are formulated with base oils that resist reactions with free radicals that create sludge, similar to how you need to keep up a strong immune system to resist chemical and genetic changes that can lead to cancer.

Detergent, dispersant and antioxidant additives also play a key role. They help maintain internal cleanliness by suspending contaminants, minimizing contaminant agglomeration and fighting free radicals to keep this cancer from forming in your engine.

Dirty components run poorly, pollute and don't last. They cause system failures in engines, compressors and gearbox systems that dramatically increase downtime, increase operating costs and reduce equipment life. Clean lubrication systems, on the other hand, require less maintenance, produce more energy, use fuel more efficiently, increase equipment service life and run cleaner.

AMSOIL synthetic lubricants not only resist oxidation and sludge formation, they can help clean existing deposits in neglected engines due to superior detergency. With modern engines and equipment demanding higher-quality lubricants, it's good to know AMSOIL synthetic lubricants are formulated to protect against sludge in the toughest operating conditions. Just like we all want to stay healthy so we can live long and purposeful lives, we want to keep sludge from forming in our engines so they can do the same!

Signature Series Cleans

AMSOIL Signature Series Synthetic Motor Oil has **50% more** detergents^D to help keep oil passages clean and promote oil circulation. It provides **90% better protection** against sludge.^{DD}

^Dvs. AMSOIL OE Motor Oil ^{DD}Based on independent testing of AMSOIL Signature Series 5W-30 in the ASTM D6593 engine test for oil screen plugging as required by the API SN specification.

MORE PERFORMANCE, LESS WEAR: WHY GEAR-OIL COMPATIBILITY MATTERS

Many people overstress their vehicles, especially in the summer, pulling trailers, campers or boats, sometimes exceeding their rated towing limits in sweltering heat. Commercial vehicles often spend their lives in severe service. Severe-service conditions place extreme pressure on transmissions and differentials, making the proper selection of gear oil essential for maintaining the performance, efficiency and longevity of vehicles.

GL-4 vs. GL-5

The American Petroleum Institute (API) classifies gears using GL ratings, ranging from GL-1 to GL-5. Higher GL rating numbers represent more severe applications. GL-1 is the least severe and can usually be satisfied with a motor oil, while GL-5 is the most robust for managing severe applications.

The main difference between GL-4 and GL-5 gear oils is the level of extreme-pressure (EP) additives included in the formulation. EP additives protect gears by providing a sacrificial layer on gear surfaces. They are essential for protecting gears operating under heavy loads and extreme temperatures.

While some GL-5 oils claim backward compatibility with GL-4 applications, it's critical to follow manufacturer specifications to avoid excessive wear on sensitive components. For optimal protection, consult your owner's manual or use the Shop by Vehicle tool at [AMSOIL.com/AMSOIL.ca](https://www.amsoil.com/AMSOIL.ca) for the manufacturer's recommendation. These sources will provide the specified viscosity (75W-90, 75W-110, 80W-90, 75W-140, etc.) and specification (API GL-4, API GL-5, API MT-1, etc.) recommended for your application.

GL-4 Gear Oil

GL-4 oils are typically recommended for spur and helical gears found

in manual transmissions and transaxles where moderate speeds and loads are expected. They contain a balanced amount of extreme-pressure (EP) additives for smooth gear operation without causing undue wear to softer, yellow-metal components like brass or bronze synchros. This makes GL-4 the go-to choice for specific gearboxes requiring compatibility with sensitive components.

GL-5 Gear Oil

GL-5 gear oils are typically recommended for hypoid gears in automotive axles and differentials where high-speed and high-load conditions are common. GL-5 oils have nearly twice



the EP additives of GL-4 oils. These advanced additives form a sacrificial barrier, protecting against wear in high-load regions. This formulation makes GL-5 oils indispensable for vehicles subjected to towing, off-road use or other extreme conditions.

Thermal Runaway

The extreme pressures and temperatures generated by modern vehicles can lead to a serious condition known as “thermal runaway.” As differential temperatures increase, gear lubricants lose viscosity and load-carrying capacity. When extreme loads break the lubricant film, metal-to-metal contact occurs, increasing friction and heat. This increased friction and heat, in turn, results in further viscosity loss, which further increases friction and heat. As heat spirals upward, viscosity spirals downward. Thermal runaway is a vicious cycle that leads to irreparable equipment damage and ultimately catastrophic gear and bearing failure.

Proven Protection

AMSOIL SEVERE GEAR® Synthetic Gear Lube is engineered to meet the demands of the most punishing applications and extreme environments. SEVERE GEAR is engineered with high film strength for high-load demands. It reduces friction and provides the ultimate protection against wear, excels in extreme temperatures, helps maintain efficiency and far outperforms conventional gear oils. SEVERE GEAR is excellent for all cars and trucks, but it's especially well-suited for towing, hauling, racing, commercial use and other severe duty.

SEVERE GEAR is formulated with proprietary additives that create an iron-sulfide barrier on gear surfaces, shielding them from wear, pitting and scoring. This unique technology helps ensure that components stay in peak condition, even under the heaviest loads.

How good is it? SEVERE GEAR uses technology that has been tested in one of the most challenging applications on earth – wind turbines. Prior to AMSOIL

entering the sector, the wind industry struggled with high maintenance costs and component longevity. AMSOIL helped turn that around, and today we are a significant player in the industry. While our synthetic formulations for wind turbines differ from automotive applications, some of the same pioneering technology that protects turbine gearboxes is used in SEVERE GEAR formulations to protect vehicles.

Advanced Technology

Modern vehicles boast more horsepower and torque than ever before, subjecting their differentials to increased levels of stress and heat. Thermal runaway has become a true threat. Gear oils must provide adequate wear protection in extreme conditions, while also providing maximum fuel efficiency. To protect these vital components, it's essential to install the recommended gear lube for your vehicle. To maximize performance and protection, AMSOIL SEVERE GEAR provides technology that has been tested in the most extreme applications on the planet. For those who demand the best, AMSOIL SEVERE GEAR offers peace of mind backed by cutting-edge science and proven durability.



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SPECIALIZED LUBRICANTS ENGINEERED FOR WHAT YOU DRIVE AND HOW YOU DRIVE®



Become an AMSOIL Preferred Customer

V-twins, hybrids, lawn mowers, race cars – whatever you drive, no two engines function exactly the same way. Getting the best performance and longest life out of your vehicles and equipment requires specialized lubricants.

AMSOIL products are engineered to deliver targeted, application-specific benefits so you can extract maximum performance and life from your equipment.

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