



► PREFERRED CUSTOMER EDITION

MAGAZINE

FALL 2022

PREP FOR YOUR ADVENTURE- BIKE TRIP

| PAGE 4

Don't Let Scorching Summer Heat Sideline Your V-Twin Bike | PAGE 8

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See **page 37** to order your V-Twin Oil Change Kit.



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THE COVER

This modified 2008 KTM* 690 Enduro* bike is owned by AMSOIL Video Producer/Photographer Wyatt Gruben, who took it on an epic ride along the Continental Divide.

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PREP FOR YOUR **ADVENTURE-BIKE** TRIP

In recent years, the motorcycle market has begun shifting away from big, powerful V-twin cruisers, like a typical Harley-Davidson,* and toward lighter, versatile adventure bikes. The pandemic accelerated the shift as sales of adventure bikes jumped 46.5% from 2019-2020 as people in search of entertainment options during the lockdowns snapped up new and pre-owned adventure bikes. Maybe you're one of them. Before you embark on your adventure-bike trip, follow these steps to ensure you spend your time making memories and not repairs.

Research Your Bike & Route

Understand everything you can about your bike before you hit the road. It seems like every vehicle or piece of equipment reveals nuances over time, even new models. Maybe it's an electrical issue or frequently overlooked maintenance task, such as a valve adjustment. Research online forums dedicated to your make of bike to discover problems that have befallen other riders. Ask yourself...

- How much money will it cost me to prepare the bike?
- Am I capable of fixing things if (when) something goes wrong?
- Do I have the proper tools?

In the same vein, research your planned route beforehand to identify potential pitfalls, like road closures, flooding, forest fires and similar issues.

- What have other riders experienced on the route?
- Do you have updated, accurate maps and route notes?
- How difficult will the riding be and are your skills and experience equal to the task?

Again, the Internet is indispensable for this task. Put in the hours needed on the front end so you limit the problems that attempt to ruin your trip.

Pack, Unpack & Repack

Seasoned riders say this may be the most important, yet neglected, step. On long trips, you'll be tempted to pack far more than you need or can comfortably carry. Pack your bike to ensure everything has its place. Then unpack it, eliminate the unnecessary items and repack the bike. Keep doing it until you've purged anything that isn't essential. Keeping your bike lean and light will improve fuel efficiency, comfort and safety. It'll also improve your mood every time you must

dig through your saddlebags for an important item at the bottom.

Get Some Seat Time

Seat time is king. If you want to improve your riding and feel at home on your bike, spend time on it. It'll increase your comfort and confidence. It'll also provide opportunities to uncover issues you need to address before departure.

Anytime you change something on your motorcycle during preparation, test it to ensure it was for the best. You don't want to get two days into your journey and notice a problem that a little seat time beforehand would have revealed. What would have been a simple fix back home becomes a daunting task on the trail. Getting out and riding before your trip is the best way to avoid these potential pitfalls.

Convince A Friend To Join

This can be the most difficult, yet rewarding, task. While there is something to be said for the solace of riding solo, an epic journey is best with a friend or two.

Some of the best times on a trip aren't those spent riding, but gathered around a campfire at the end of the day recounting the day's events.

If your buddy is less experienced, start with a simple, one-day trip, not a full-on, live-off-the-bike, no-showers, month-long expedition. Your friends may resist, but when they return from the trip, they won't have any regrets.

Get Out And Go!

Who hasn't daydreamed about hitting the road on an epic adventure only to allow our daily duties to derail our plans? If you've thought about an epic adventure-bike trip, set the goal, work toward it and make it happen.

Ask anyone who's undertaken such an adventure and they'll tell you that it was well worth it and they wish they'd done it sooner. If you can't do it this summer or fall, shoot for next summer or fall. Find businesses that rent adventure bikes and start with a day trip. Get comfortable on the bike and strive for a longer trip.

If you need inspiration, check out AMSOIL Video Producer/ Photographer Wyatt Gruben's epic ride of the Continental Divide with his father. If the sight of the Rockies and Grand Tetons doesn't ignite your desire to hit the trail, nothing will.



Watch the Video
AMSOIL Rides
The Divide:
Mexico to Canada
2,700 Miles (4,345 km)
of Epic Adventure

PREPARE YOUR BIKE

This includes repairing known issues with the bike you uncover during your research. Don't forget these additional steps:

Change motor oil – Our research reveals that adventure-bike riders want a motor oil that delivers three primary benefits:

- **Wear protection**
- **Maximum fuel economy**
- **Good engine cleanliness**

AMSOIL Synthetic Metric Motorcycle Oil (MCT, MCF, MFF) delivers on all three fronts. It contains a heavy treatment of anti-wear additives to fight wear in tough conditions, while its synthetic base oils naturally resist heat better than conventional oils to reduce harmful deposits. It reduces friction, which helps maximize fuel economy, an important benefit when you're far from a filling station.

In addition, it's recommended for up to twice the motorcycle manufacturer's oil-change recommendation, meaning your bike is protected if you surpass the oil-change interval during your trip and don't want to stop to change oil.



Check fluids – Top-off the brake and clutch reservoirs, and check the coolant and suspension fluid. Look for leaks and fix problems before you start your trip. We offer a full line of motorcycle products that provide exceptional protection in high-heat, high-stress conditions. See them all at AMSOIL.com/AMSOIL.ca.

Check all lights

– Go around the bike and ensure the headlight, taillight and directional lights are working.

Change air filter – If you plan to encounter dusty, dirty conditions (and who isn't on an adventure bike?), start with a clean air filter. It's your first line of defense against the engine ingesting wear-causing contaminants that can reduce engine power and life.

Check chain & sprockets

– Ensure proper chain tension and look for signs of wear, like pointed sprocket teeth. Lubricate with AMSOIL Chain Lube (ACL), which provides excellent wear protection and doesn't attract dirt.



Inspect tire condition and psi – Look for cracking or checking along the sidewalls; they're a sure sign that it's time to buy a new set of tires. Check for proper psi and inflate as needed.

Inspect brake pads – Take a look at the brake pads and ensure adequate pad material. You don't want to hear the telltale squealing of worn pads while descending a mountain pass in the middle of nowhere.

WHY BUY SIGNATURE SERIES?

**DO YOU
DRIVE IN HOT
TEMPERATURES?**



AMSOIL is barely challenged by the industry-standard testing, **demonstrating only a 0.1% viscosity increase**. Even when the **test length is doubled**, AMSOIL delivered **twice the viscosity control** required by the standard.⁴

50 percent more detergents⁵ to help keep oil passages clean and promote oil circulation. Provides **90 percent better protection** against sludge.⁶

**DO YOU
HAVE LONG
COMMUTES?**



28 percent more acid-neutralizing power⁸ than Mobil 1,* helping engines stay cleaner, longer.

Reserve protection so you can go up to **25,000 miles**, 700 hours of operation or one year between oil changes, whichever comes first.

**DOES YOUR
VEHICLE HAVE A
TURBOCHARGER?**



72 percent better turbocharger protection than required² by the GM dexos1[®] Gen 2 specification.

Achieved **100 percent protection** against low-speed pre-ignition (LSPI).³

**DO YOU TOW
OR HAUL?**



75 percent more engine protection against horsepower loss and wear.⁷

**DO YOU
DRIVE IN COLD
TEMPERATURES?**



AMSOIL synthetic motor oils make **cold-weather starting 39% easier** than conventional motor oils.⁹

**DO YOU WANT
EXTRA ENGINE
PROTECTION?**



Far superior wear protection compared to the competition – kept bearings looking like new after 100,000-mile test.¹

¹Testing conducted in an independent lab using AMSOIL Signature Series 5W-30 Synthetic Motor Oil and a leading synthetic-blend 5W-30 motor oil in Ford F-150 trucks with 3.5L twin-turbo engines. ²Based on independent testing of AMSOIL Signature Series 5W-30 in the GM turbo poking test. ³Based on zero LSPI events in five consecutive tests of AMSOIL Signature Series 5W-30 Motor Oil in the LSPI engine test required by the GM dexos1[®] Gen 2 specification. ⁴Based on independent testing of AMSOIL Signature Series 5W-30 in the Sequence IIH Engine Test (ASTM D6111), required by the ILSAC GF-6 and API SP specifications. ⁵vs. AMSOIL OE Motor Oil. ⁶Based 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. ⁷Based on independent testing of AMSOIL Signature Series 0W-20 using the ASTM D6891 standard test. ⁸Based 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. ⁹Based upon testing of AMSOIL Signature Series 5W-30 and a national conventional brand 5W-30 in the ASTM D5293.





Matt Erickson | VP, PRODUCT DEVELOPMENT

LSPI is still causing problems

Prepare for an LSPI test for used oil.

Low-speed pre-ignition (LSPI) surfaced a few years ago and caused so much trouble that the auto industry introduced an updated oil specification, API SN PLUS, just to deal with it. Well, automaker data from the field suggests it's still a problem.

Before I dive in further, let's refresh our memories on LSPI. It's an abnormal combustion event that results in severe engine knock. It can happen when over-sprayed fuel combines with oil along the cylinder wall, creating droplets that hide in the piston crevice. Those droplets launch into the combustion chamber and ignite the fuel/air mixture too early. This creates a shock wave that collides with the upward-moving piston. Sometimes, drivers notice the engine idling roughly or knocking. In extreme cases, the force can break off chunks of the piston, destroying the engine – and causing expensive warranty claims the automakers don't want.

LSPI is a cousin of traditional engine knock, which has been around since engines were invented. But it is specific to gasoline-direct-injected engines that are usually turbocharged (T-GDI) and it normally occurs under low-speed, high-torque conditions, like when accelerating from a stop. That's a problem because most modern engines use turbocharging and direct injection to help meet tightening fuel-economy and emissions requirements.

This issue was so important that the industry introduced the API SN PLUS specification in May 2018, an amendment to the API SN specification that was current at the time. The new spec included an LSPI test in response to the rash of LSPI

issues arising in the field. Everyone agreed that it was needed to bridge the gap until the introduction of the API SP specification, which included an LSPI test.

Despite all this, some automakers are still seeing LSPI issues cropping up in the field. A recent Society of Automotive Engineers (SAE) paper indicates why. While some oils protect against LSPI when they're new and fresh out of the bottle, their ability to protect may diminish as the oil ages in service. In one test, administrators aged different API SN PLUS oils for 100 hours on a dyno. Then they subjected them to LSPI testing and found that some oils provided good LSPI protection when new, but not after they'd been aged.

The study found that the oil's formulation played a role in whether it protected against LSPI after aging. Oils with the proper balance of calcium and magnesium detergents were found to perform better after aging.

The industry is now working on an LSPI test for aged oil. All signs point toward introduction of another supplemental specification (probably API SP PLUS) that will include the new test.

This situation underscores the difficulty in formulating motor oil for today's engines. The oil must fight wear despite increased stress, resist deposits despite intense heat, maintain its viscosity, remain fluid in the cold, fight oxidation, resist the damaging effects of fuel dilution and cool hotter engines throughout longer drain intervals. Not only that, it must

protect against LSPI when new out of the bottle and continue that protection throughout the drain interval. That's a lot for a motor oil to handle, and those requirements make it increasingly difficult for formulators.

But we're up for the challenge. We were ahead of the game when LSPI first surfaced – AMSOIL synthetic motor oils achieved 100% protection against LSPI¹ – and, even though the aged-oil LSPI test is not yet fully defined, we're staying on top of it and early testing indicates we're in great shape.

Engines will only become more sophisticated, meaning they'll place greater demands on oil. Rest assured that AMSOIL synthetic motor oil will deliver premium protection against LSPI both new out of the bottle and throughout the drain interval so you can get the most out of your T-GDI engine.

¹Based on zero LSPI events in five consecutive tests of AMSOIL Signature Series, XL and OE 5W-30 Motor Oil in the LSPI engine test required by the GM dexos1 Gen 2 specification.



DON'T LET SCORCHING SUMMER HEAT SIDELINE YOUR V-TWIN BIKE

Every August, Sturgis, S.D. becomes the epicenter of biker culture for more than a week. Intense summer heat often defines the event as much as the roar and rumble of thousands of big V-twin engines.

On afternoons when the sun is beating down upon the asphalt, you may see a few bikes pulled over due to engine overheating. This scenario is especially likely when rally traffic along Main Street moves along at a crawl as bikers take in the sights and sounds.

Extreme Summer Heat Can Sideline Your Bike

Here's what often happens. As heat intensifies, motor oil loses viscosity and becomes thinner. The oil can become so thin that the engine loses oil pressure, causing the oil-pressure gauge to bottom out. The rider may notice increased valvetrain and gear noise as parts clatter together.

Most riders know that you don't run your engine with no oil pressure, so they shut their bikes down and sit alongside the road until the engine cools enough to restore oil pressure.

Air-Cooled Engines are Especially Vulnerable to Heat

Air-cooled V-twins get plenty hot on their own, but riding in slow-moving traffic makes it worse.

Crawling along barely above idle doesn't generate sufficient airflow to cool the engine.

Add to that the blazing sun reflecting off the asphalt, and it's a recipe for trouble. In extreme dyno testing designed to create heat, we've seen cylinder temperatures in a 2019 Harley-Davidson* Milwaukee-Eight* engine hit 421°F (216°C).



Motor Oil Bears the Brunt of Heat

It's up to the motor oil to protect the engine despite the intense heat. However, oil becomes thinner as it heats up, and if it becomes too thin, it can fail to form a lubricant film of sufficient thickness and strength to prevent metal components from contacting during engine operation and wearing out. Once the lubricant film fails, it falls on the anti-wear additives to prevent wear. They form a sacrificial

layer on components to keep them from contacting. But additives are designed to deplete with time and use, meaning once they wear out, your engine isn't protected in this scenario.

Liquid-Cooled Bikes Can Get Hot, Too

Although heat is a bigger challenge for air-cooled engines, extreme heat can also negatively affect liquid-cooled bikes, even though they run much cooler.

How much cooler? Testing of a liquid-cooled Indian* Scout* in our mechanical lab revealed cylinder temperatures averaging 200°F (93°C), far cooler than the Harley.

That's because a liquid-cooled motor relies on a jacket of coolant/water surrounding the cylinders to absorb heat and carry it to the radiator, where it dissipates into the atmosphere. Water/coolant is a more effective heat-transfer medium than air, which you can see in the cylinder-temperature difference between the two bikes.



Even so, engine and oil temperature will still increase along with ambient heat, so it's just as important to use a good motorcycle oil in liquid-cooled engines.

The rate at which oil oxidizes, or chemically breaks down, doubles for every 18°F (10°C) increase in lubricant temperature. Oxidation occurs when oxygen molecules attack oil molecules and result in a chemical reaction that leads to harmful byproducts, like sludge and varnish. The faster the oil oxidizes, the sooner it wears out and requires changing.

Liquid-cooled engines may run cooler and help prevent overheating, but riders are fiercely loyal to their bikes. Their big air-cooled V-twins are an extension of their personalities, and they aren't about to trade them in for another brand just because it's hot outside.

AMSOIL Synthetic Motorcycle Oil Turns Down the Heat

AMSOIL Synthetic V-Twin Motorcycle Oil uses high-quality synthetic base oils that naturally resist thinning due to extreme heat and mechanical activity better than conventional base oils. As a result, it forms a thick, strong lubricating film on engine components despite the intense heat.

To prove it, we subjected AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil (MCV) to an extreme dyno test designed to create extreme heat.

- 2019 Harley-Davidson Street Bob
- Milwaukee-Eight 107 c.i. engine
- 1,000 miles (1,600 km) on engine dyno
- 300°F (149°C) oil temperature
- 421°F (216°C) max. cylinder temperature

Following 1,000 miles (1,600 km) of extreme heat, 20W-50 Synthetic V-Twin Oil provided exceptional protection. As the images show, the piston skirt contains virtually no wear, while deposits are minimal given the extreme conditions. In addition, the rings still move freely for maximum compression and power. The wear surfaces on the compensator are also in excellent condition, indicating the oil provided smooth, reliable shifts.

With AMSOIL, you can rest assured your V-twin is protected no matter how hot it gets.

Following **1,000 Miles (1,600 km)** on the Dyno
@ 300°F (149°C) Oil Temp

Rear-Cylinder Piston



The rings are virtually deposit-free and didn't stick for **maximum compression and power**. The skirt contains minimal scuffing for **long engine life**.

Compensator



The wear surfaces show minimal distress, indicating the oil protected the compensator for **smooth, quiet shifts**.



Watch The V-Twin Torture Test

See all the results at [YouTube.com/user/AMSOILinc](https://www.youtube.com/user/AMSOILinc). Enter "V-Twin" in the search on our page. Or, scan the QR code:





KING OF THE MOUNTAIN

Scott Birdsall joins Team AMSOIL

"It's about finding that last tenth." That's how Scott Birdsall sees competition — and clearly, he knows where to go looking for it. Birdsall, the newest member of Team AMSOIL, is the visionary builder and driver of Old Smokey — a 1949 Ford* F1* pickup equipped with a 12-valve, 6.7L twin-turbo Freedom Racing Engines* Cummins* engine — that holds the Pikes Peak International Hill Climb diesel record with a time of 11:24.065. Birdsall and Old Smokey also hold the half-mile diesel land-speed record at 167 mph. Those accomplishments are even more incredible considering that Birdsall simultaneously operates two award-winning fabrication shops, Chuckles Garage and Resolute Motorsports in Santa Rosa, Calif. But instead of slowing down, Birdsall is just getting started. When the milestone 100th Pikes Peak International Hill Climb ran on June 26, he was back with a new car intent on resetting his own record. And AMSOIL was there to help.

Old Smokey

"I bought Old Smokey off Craigslist for \$225," said Birdsall. "I was just going to flip it, but it started to grow on me. I decided to make it into a shop truck to run around in and grab parts and stuff with, so we put a 12-valve Cummins diesel in it and some standard stuff.

"But I don't have any personal restraint," he continued. "So, one turbo turned into two, and two turned into two really big ones — and then it turned into needing big brakes. It turned into a 1,200-hp street truck. Before I knew it, it was a full-blown race truck with a license plate on it."

Old Smokey debuted at the 2016 SEMA show with a lot of buzz, going viral on social media and making *Car and Driver's* Top 10 of SEMA 2016. But Birdsall decided to take the truck to yet another level.

Old Smokey went through another rebuild with "literally everything" upgraded with \$400,000-plus of premium components. He says you can think of Smokey as a World Challenge Cup GT race car hiding under a '49 Ford F1. It has a computer-designed aerodynamics package that creates tons of downforce. The Freedom Racing Engines Cummins runs on Nex-Diesel,* a renewable fuel that burns clean and efficient. FASS Fuel Systems* pumps and Dynamite Diesel* injectors deliver the fuel, creating a staggering 1,463 hp and 2,100 lb.-ft. of torque. Birdsall says that Smokey is a beast to drive at 4,400 nose-heavy pounds and no driving aids like traction control or ABS.

"Smokey is like sitting on a silverback gorilla and giving it the taser," joked Birdsall. "It's a purely analog machine with no driver aids at all. The only driver aid is your fear of mortality."

Race to the Clouds

The Pikes Peak International Hill Climb, also known as "The Race to the Clouds," is a race to the summit of Pikes Peak in Manitou, Colo. The route stretches uphill 12.42 miles with 156 turns and 4,725 feet of elevation gain, finishing at 14,115 feet above sea level.

"There's always been this mystique," said Birdsall about Pikes Peak. "It's one of the most legendary races in the world. I grew up watching it on TV with my dad, so I always held these drivers up on a huge pedestal. They're professional racing drivers, but they're also doing this crazy race up this half-dirt, half-paved road."

Birdsall has always been a gearhead with a love for speed. He grew up racing dirt bikes and go-karts through club racing and then some World Challenge racing. But he walked away from the track for a while to focus on snowboarding.

"Before I was a sponsored racer, I was a sponsored snowboarder," said Birdsall. "I rode for Burton* and Analog.* It's crazy because my first big sponsor in the automotive world was Airaid,* and their GM at the time was a bigwig at Burton.* We met at SEMA and it just clicked. My snowboard sponsor became my first auto sponsor."

In 2017, Birdsall set his sights on Pikes Peak. "I just got the idea; I wanted to go run the Peak," he said. But things didn't go his way initially.

"I threw it off the mountain in 2018 on my first try," said Birdsall. "I crashed in tire



"I got sick of corporate America, so I had to leave for my own health reasons," he said. "It's not worth it, burning eight hours of your life for something you're not passionate about. You're just burning your life to fuel someone else's dreams."

In 2005, Birdsall opened Chuckles Garage. The shop specializes in custom builds with Birdsall as lead designer. The shop has gained an international reputation for its work, with projects featured in magazines like *Hot Rod*, *Car Craft*, *TRC*, *Diesel World*, *Diesel Power* and numerous TV shows.

"My personal passions are Porsches and vintage Japanese cars," said Birdsall. "By vintage I mean the 90s, things like that. For example, I have a '93 Selica* World Rally Car GT 4 and a '98 Supra* Twin Turbo that's basically a crazy streetcar with 1,300 horsepower."

As Chuckles Garage took off, the ever-restless Birdsall co-founded a second shop, Resolute Motorworks, to focus on

fabricating Porsches. Resolute builds cars from the SC* and Carrera* 3.2 generation of 911 Porsches, ideally 3.2L cars produced from 1983 to 1989, and remakes them into serious on/off-road cars with re-engineered components that are tested on desert, gravel, snow and pavement.

"Chuckles does pretty much anything I deem fun. Resolute does Overland 911s and Overland Cayennes," Birdsall said.

Return to Pikes Peak

Birdsall returned to Pikes Peak on June 26 hoping to put his diesel record where it's hard to get. The car he built to be Smokey's successor is a full-on Le Mans prototype, similar to a car you'd see running the 24-hours of Le Mans. It's a unique diesel vehicle, and it seemed likely to do what Birdsall wanted it to.

"Everything is super 'racecar' on it and thoroughly modern," said Birdsall. "I've basically taken it and blown it down to its basic elements and made it into its own chassis. We call it the 'CG Superlight LMP1.'"

The LMP1 chassis weighs less than 3,000 pounds with tons of downforce. It's powered by a VM Motori* 24-valve diesel V6 built by Freedom Racing Engines. It

uses Dynomite* ADM injectors specially designed for Pikes Peak and is equipped with compound Garrett Motion* turbos to produce an output of 600 hp and 900 lb.-ft. of torque that's mated to a 6XD 6-speed sequential transaxle. Toyo* made a set of prototype slicks for the event that provide ample stickiness to navigate the course's relentless turns at high speeds.

The fan favorite, Old Smokey, also returned to the mountain, this time with Erin Kaufman behind the wheel.

Given the audacity of his goals, Birdsall sought out a lubricant partner with a history of winning races and resetting limits – not to mention history with the Pikes Peak race.

"AMSOIL provides us with a reliability bump," said Birdsall. "It's definitely cool that I'm with a sponsor that has already conquered the peak – and basically puts my name in the hat with the Unsers. That's cool; they are royalty out there. And I really like the company's overall spread of motorsports. They really are into everything."

The Mountain Decides

Birdsall's new AMSOIL LMP1 diesel racecar was favored to break the record he set with Old Smokey. But drivers encountered thick fog and rain during the event, not ideal on a course that snakes its way up a treacherous mountain. A new Pikes Peak diesel record was not meant to be in 2022.

Standing in the clouds at the summit after his run, Birdsall explained that the LMP1 doesn't like moving slow due to side-mounted radiators that rely on fast air flow. About halfway up before Devil's Playground, the LMP1 started overheating and Birdsall had to pull over. The engine died and then started again. He knew he wasn't having a record-setting run so he just took a safe parade run to the top, just to finish the landmark running of the race.

"I wanted to bring the diesel record into the nines," Birdsall said. "But the mountain decides, and today the mountain said 'no.'"

Birdsall will return to Pikes Peak again and AMSOIL will be there with him — helping him find that last tenth. And, if the mountain allows it, a new Pikes Peak diesel record will live in the books.

Keep up with Scott Birdsall's adventures. Follow him on your favorite social media channel at @chucklesgarage.

testing, herniated two discs in my neck and broke my tailbone." Old Smokey was also banged up. Birdsall and his crew fixed the truck in eight days and came back to qualify, but engine damage caused Birdsall to withdraw from the race.

He returned in 2019 and managed to start the race. But halfway through his run, rain and hail moved in and the race was called off for safety reasons.

But tenacity paid off in 2020. Birdsall and Old Smokey pulled down the Pikes Peak diesel record set in 2015 by an AWD Mercedes-Benz* C 250 d 4MATIC* driven by factory rally driver Uwe Nittel. He succeeded despite Old Smokey overheating at 12,800 feet, putting it into limp mode to the finish. But Birdsall takes it in stride.

"I don't know," he said. "It's just like my whole life, things just happen. There's no plan; it just flows into its own organic monster. Same thing with my Porsche* business; I never intended to have one. I just built one and it just became popular."

Chuckles Garage

In the early 2000s, Birdsall was working as a regional manager for a big-box retailer, but it wasn't his thing.

Photo by Larry Chen

'Million-Mile Phil' Trusts AMSOIL for His Honda* Gold Wings*

Phil Steiner proudly calls himself an "80-year-old Lima, Ohio guy." The lifelong resident of the northwest Ohio city spent 44 years working for Ford Motor Company* in a variety of departments, including machining, production and cleaning.



"I used to wash and wax the plant manager's car," said Steiner. "He liked that." It was a good fit for the longtime motorhead whose stable of vehicles includes a '57 Chevy* and a '59 Corvette.* The retired Ford worker is quick to point out he also owns a Lincoln* Towncar,* which was made by the Blue Oval.

Gold Wings Soar With AMSOIL Products

Steiner's real passion, however, is riding Honda Gold Wings. The crowned jewel of his garage is his 2015 GL 1800; its odometer reads nearly 704,000 miles (1.1 million km). Steiner also owns a 2002 Gold Wing with 554,000 miles (892,000 km) on it.

Amazingly, both bikes still have their original engines and, with the help of AMSOIL Synthetic Metric Motorcycle Oil, have required no engine work.

Lifelong Passion to Ride

Despite his current loyalty to Gold Wings, Steiner's riding career started aboard a '47 Harley-Davidson* Knucklehead.* "I

paid \$200 for it back in 1962," Steiner said. After a year, he bought a 1960 CH Sportster.* He rode it about 2,000 miles (3,200 km) roundtrip to Daytona Bike Week in Florida for four straight years. "Back then I was young and dumb," said Steiner. "Now I'm just old and dumb."

He soon upgraded to a 1968 Harley. "After 19,000 miles (30,600 km) I was putting a bottom end in it," said Steiner. "Of course, I pulled sidecar in the wintertime." Then he bought a new 1970 Harley, but was installing new valves after 25,000 miles (30,500 km) and a new chain every 8,000 miles (12,900 km).

Gold Wing Debuts in 1975

Steiner wanted a bike with a driveshaft instead of a chain, so he bought a Moto Guzzi.* "First time I took it through the car wash, it wouldn't start," he said. "I called the dealer up, and he said, 'Don't spray much water on that distributor.'" After about a year, the Honda Gold Wing debuted, beginning Steiner's love affair

with the bike. "I've been on a Gold Wing ever since," he said.

He and the dealer couldn't agree on a price for a new model, so he snapped up a used '75 with 300 miles (480 km) on it. He bought it in February and a friend had to help him pull-start the bike behind his car since the bike's starter refused to engage. "They didn't start good in the wintertime," said Steiner. In just eight months, he put on 30,000 miles (48,300 km). With each successive Gold Wing Steiner bought, he racked up more miles, breaking 200,000 miles (321,900 km) on his '85 Gold Wing and hitting nearly 270,000 miles (434,500 km) on his '91 model.

2 Million Miles on Gold Wings

Today, his garage is home to the aforementioned 2002 and 2015 Gold Wings that just keep running. Steiner figures he's ridden about 2 million miles (3.2 million km) on Gold Wings in his lifetime, earning him the nickname "Million-Mile Phil."

Phil Steiner's 2015 Honda Gold Wing recently surpassed 700,000 miles (1.1 million km) on its original engine.



After buying the 2015 Gold Wing, Steiner ran the original equipment manufacturer oil for about 5,000 miles (8,000 km) before switching to AMSOIL 10W-40 Synthetic Metric Motorcycle Oil (MCF).

Steiner loves riding so much that he sometimes rides through the night to reach his destination. "I have a good friend from Wausau, Wisconsin," he said. "I'm going to get up about 3 in the morning to go see him and I'll do a same-day deal – about 1,000 miles (1,600 km) up there." His friend has a 1975 Gold Wing with 1 million miles (1.6 million km) on it. "But he's had five motors," said Steiner.

No Engine Work Needed

Steiner's 2015 and 2002 Gold Wings are still running strong on their original engines. He didn't even change the alternator on the 2015 model until 570,000 miles (917,000 km). He also gets great mileage on his tires, with up to 50,000 miles (80,500 km) on the front tire. The mileage is so good that some other riders think he's lying about how long he uses them. "I have no reason to lie; they're just jealous because they can't get that many miles out of them," said Steiner. He doesn't push his bikes too hard, which contributes to their sparkling maintenance records. The 2015 model uses only one-quarter of a quart of oil every 400 miles (640 km). "She should be using oil at 700,000 miles," said Steiner.

The Moonshine Store in rural Illinois, famous for its Moonshine Burger, is one of Steiner's favorite destinations. "I ride 600 miles (965 km) for a hamburger," he said.

Rides 600 Miles for a Burger

Steiner doesn't take many overnight road trips anymore, but he still likes to get out and put some miles behind him. He likes to ride up to the famous Moonshine Store near Martinsville, Ill., home to the Moonshine Burger. The store once hosted a bike rally that Steiner sometimes attended. Although the rally is no more, he still likes to make the trip every now and again. "I run 600 miles (965 km) to get a hamburger," he said.

40 Straight Years of Daytona Bike Week

After 2 million miles (3.2 million km) riding Gold Wings, Steiner said there are only two or three states he's never visited. Florida is his most frequent destination. "I rode 40 years to Daytona (Bike Week) from Ohio from 1964 to 2004," he said. He never missed a year, even when the temperature plunged to -8°F (-22°C) one year as he left home. And back then he didn't have the equipment he has now to stay warm on cold rides. "I got an electric jacket, electric pants, heated insoles for my shoes, heated gloves and electric grips," he said. The bike even has a heated seat. "I'm the electric cowboy," said Steiner.

Aftermarket Oil Additive Causes Clutch Problems

Other than having some valves shimmed, the 2015 Gold Wing has required no engine work. However, he did have to replace the clutch recently after trying a popular aftermarket oil stabilizer he had sitting around his garage that Steiner figured might help reduce oil consumption. But it turned out to be more harm than good. "I noticed my clutch was slipping," he said. He'd never had clutch problems on a Honda before. Fortunately, while the bike was in the shop, Steiner was able to ride his "backup" 2002 Gold Wing. "I watch what I put in there now," he said.

Steiner wastes no words when talking about his experience using AMSOIL products. "It's done me a good job," he said. He hopes to hit 1 million miles (1.6 million km) with his 2015 Gold Wing. Steiner said he takes care of himself and walks everyday so he can continue to pursue his riding passion. He also takes care of his bikes with the help of AMSOIL Synthetic Metric Motorcycle Oil. "I just go out every day," he said. "When I'm on the road, I run gas tank to gas tank. I just like to ride."



Synthetic Gasoline Motor Oil



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Events

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Signature Series Keeps Pistons Cleaner

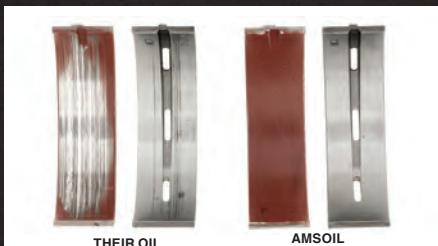
Even after doubling the length of the industry-standard test, AMSOIL delivered **40% cleaner pistons** than required by the standard.^{FF}



^{FF}Based on independent testing of AMSOIL Signature Series 5W-30 in the Sequence IIIH Engine Test (ASTM D8111), required by the ILSAC GF-6 and API SP specifications.

Signature Series Delivers Powerful Protection

AMSOIL delivers powerful protection. How good is it? An independent lab compared AMSOIL synthetic motor oil head-to-head against a leading competitor in a 100,000-mile (160,934-km) test^{FF}. AMSOIL provided far superior wear protection and kept bearings looking like new.



^{FF}Testing conducted in an independent lab using AMSOIL Signature Series 5W-30 Synthetic Motor Oil and a leading synthetic-blend 5W-30 motor oil in Ford F-150 trucks with 3.5L twin-turbo engines.



Signature Series



Signature Series Synthetic Motor Oil

Engineered for enthusiasts seeking maximum protection and performance. Precision-formulated with cutting-edge technology and a longstanding devotion to making the world's best motor oil. The result: engine protection that blows the doors off the highest industry standards. Guaranteed protection for up to 25,000 miles (40,200 km) or 1 year, whichever comes first.

0W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C947-A, WSS-M2C947-B1, WSS-M2C962-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ASMQT	EA	1 Quart	12.49	16.09
ASMQT	CA	12 Quarts	141.80	182.35
ASM1G	EA	1 Gallon	49.29	62.09
ASM1G	CA	4 Gallons	186.55	235.30

5W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C945-A, WSS-M2C930-A, WSS-M2C945-B1, WSS-M2C960-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ALMQT	EA	1 Quart	12.49	16.09
ALMQT	CA	12 Quarts	141.80	182.35
ALM1G	EA	1 Gallon	49.29	62.09
ALM1G	CA	4 Gallons	186.55	235.30

0W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, LL-A-025, 6094M, 4718M) • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Ford WSS-M2C963-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AZQQT	EA	1 Quart	12.49	16.09
AZQQT	CA	12 Quarts	141.80	182.35
AZO1G	EA	1 Gallon	49.29	—
AZO1G	CA	4 Gallons	186.55	—

5W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, LL-A-025, 6094M, 4718M) • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Honda HTO-06 • Ford WSS-M2C946-A, WSS-M2C929-A, WSS-M2C946-B1, WSS-M2C961-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ASLQT	EA	1 Quart	12.49	16.09
ASLQT	CA	12 Quarts	141.80	182.35
ASL1G	EA	1 Gallon	49.29	62.09
ASL1G	CA	4 Gallons	186.55	235.30

10W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Ford WSS-M2C205-A • GM LL-A-025, 6094M, 4718M

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATMQT	EA	1 Quart	12.49	16.09
ATMQT	CA	12 Quarts	141.80	182.35
ATM1G	EA	1 Gallon	49.29	—
ATM1G	CA	4 Gallons	186.55	—

0W-40

Use in vehicles that require API SP, SN-PLUS, SN... • Chrysler MS-12633, MS-10725, MS-10850; Nissan GT-R

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AZFQT	EA	1 Quart	12.49	16.09
AZFQT	CA	12 Quarts	141.80	182.35

5W-50

Use in vehicles that require API SP, SN-PLUS, SN... • Ford WSS-M2C931-C (Mustang) • GM dexos R

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AMRQT	EA	1 Quart	12.49	16.09
AMRQT	CA	12 Quarts	141.80	182.35

Signature Series Fights Wear

AMSOIL Signature Series Synthetic Motor Oil provides **75 percent more engine protection against horsepower loss and wear** than required by a leading industry standard^A, extending the life of vital components like pistons and cams.

^ABased on independent testing of AMSOIL Signature Series 0W-20 using the ASTM D6891 standard test.

Signature Series Guards Turbos

Signature Series protects turbochargers **72% better** than required^C by the GM dexos1[®] Gen 2 specification.

^CBased on independent testing of AMSOIL Signature Series 5W-30 in the GM turbo coking test.

Signature Series Protects Against LSPI

AMSOIL synthetic motor oils achieved **100% protection against LSPI**.^B

^BBased on zero LSPI events in five consecutive tests of AMSOIL Signature Series, XL and OE 5W-30 Motor Oil in the LSPI engine test required by the GM dexos1 Gen 2 specification.

Signature Series Cleans

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

^Pvs. 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 PLUS specification.

Signature Series Helps Keep Engines Cleaner

AMSOIL Signature Series is fortified with a heavy treatment of detergent additives, delivering **28 percent more acid-neutralizing power** than Mobil 1[®] and helping engines stay cleaner, longer.^{LL}

^{LL}Based 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. All trademarked names and images are the property of their respective owners and may be registered marks in some countries. No affiliation or endorsement claim, express or implied, is made by their use.

Signature Series Resists Viscosity Increase

AMSOIL is barely challenged by the industry-standard testing, demonstrating only a 0.1% viscosity increase. Even when the test length is doubled, AMSOIL **delivered twice the viscosity control** required by the standard.^{GG}

^{GG}Based on independent testing of AMSOIL Signature Series 5W-30 in the Sequence IIH Engine Test (ASTM D8111), required by the ILSAC GF-6 and API SP specifications.

TO ORDER: 1-800-777-7094 MONDAY – FRIDAY 7 A.M. – 7 P.M. • AMSOIL.COM

Free shipping on all orders of \$100 (\$130 CAN.) or more.

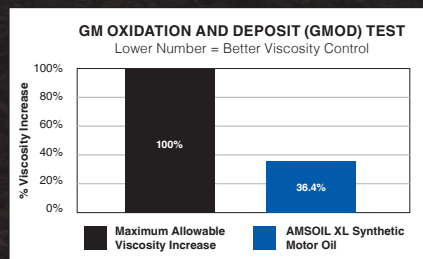
Orders below \$100 (\$130 Can.) pay a flat shipping rate of \$9.99 (\$12.99 Can.).





XL Resists Oil Breakdown

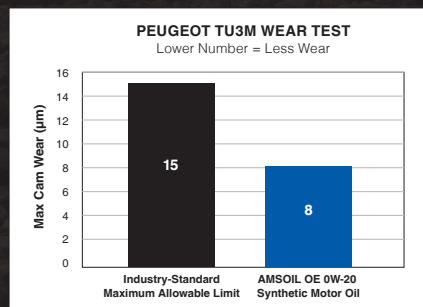
XL provides **64% more protection** against oil breakdown^F than required by the GM dexos1[®] Gen 2 specification.



^FBased on independent testing of AMSOIL XL 5W-30 motor oil in the GMOD engine test required for the GM dexos1 Gen2 specification.

OE Protects Against Wear

OE provides **47 percent more** wear protection.^G



^GBased on independent testing of OE 0W-20 in the Peugeot TU3M Wear Test as required by the dexos1 Gen 2 specification.

“I have been using AMSOIL in particular the XL series for many years. I have 2 vehicles over 500,000 km. Both vehicles are running good. The engine is going to outrun the rusty body!”

– **Henry**
Alberta





XL Synthetic Motor Oil

For enthusiasts who want to do something extra for their vehicle. Engineered for advanced automotive technology, including turbos and direct injection. Boosted formulation delivers more cleaning power and promotes longer engine life. Extra protection that lasts up to 12,000 miles (19,300 km) or 1 year, whichever comes first.

● XL 0W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C947-A, WSS-M2C947-B1, WSS-M2C962-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
XLZQT	EA	1 Quart	9.89	13.09
XLZQT	CA	12 Quarts	112.25	148.15
XLZ1G	EA	1 Gallon	38.79	50.99
XLZ1G	CA	4 Gallons	146.95	193.10

● XL 5W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C945-A, WSS-M2C930-A, WSS-M2C945-B1, WSS-M2C960-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
XLMQT	EA	1 Quart	9.89	13.09
XLMQT	CA	12 Quarts	112.25	148.15
XLM1G	EA	1 Gallon	38.79	50.99
XLM1G	CA	4 Gallons	146.95	193.10

● XL 5W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, LL-A-025, 6094M, 4718M) • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Honda HTO-06 • Ford WSS-M2C946-A, WSS-M2C929-A, WSS-M2C946-B1, WSS-M2C961-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
XLFQT	EA	1 Quart	9.89	13.09
XLFQT	CA	12 Quarts	112.25	148.15
XLF1G	EA	1 Gallon	38.79	50.99
XLF1G	CA	4 Gallons	146.95	193.10

● XL 10W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Ford WSS-M2C205-A • GM 6094M, 4718M

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
XLTQT	EA	1 Quart	9.89	13.09
XLTQT	CA	12 Quarts	112.25	148.15
XLT1G	EA	1 Gallon	38.79	—
XLT1G	CA	4 Gallons	146.95	—

○ XL 10W-40

Use in vehicles that require API SP, SN-PLUS, SN... • ACEA A3/B3, A3/B4

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
XLOQT	EA	1 Quart	9.89	13.09
XLOQT	CA	12 Quarts	112.25	148.15
XLO1G	EA	1 Gallon	38.79	—
XLO1G	CA	4 Gallons	146.95	—

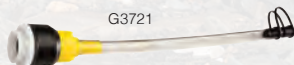
G1230



Tough-to-reach fill hole?

Order a flexible pour spout with your oil to make the job easier. Fits quarts and gallons.

PRODUCT	STOCK#	U.S. P.C.	CAN. P.C.
Flexible Pour Spout	G1230	0.80	1.05
FloTool Flexible Pour Spout	G3721	4.20	5.65



OE Synthetic Motor Oil

Delivers 100% synthetic engine protection for advanced automotive technology, including turbos and direct injection. Specifically formulated for the longer drain intervals recommended by original equipment (OE) manufacturers.

● OE 0W-16

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6B

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OESQT	EA	1 Quart	7.49	9.99
OESQT	CA	12 Quarts	84.40	112.70

● OE 0W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C947-A, WSS-M2C947-B1, WSS-M2C962-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OEZQT	EA	1 Quart	7.49	9.99
OEZQT	CA	12 Quarts	84.40	112.70
OEZ1G	EA	1 Gallon	29.39	38.59
OEZ1G	CA	4 Gallons	111.10	146.05

● OE 5W-20

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, 6094M) • ACEA A1/B1 • Chrysler MS-6395 • Ford WSS-M2C945-A, WSS-M2C930-A, WSS-M2C945-B1, WSS-M2C960-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OEMQT	EA	1 Quart	7.49	9.99
OEMQT	CA	12 Quarts	84.40	112.70
OEM1G	EA	1 Gallon	29.39	38.59
OEM1G	CA	4 Gallons	111.10	146.05

● OE 5W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • GM dexos1 Gen 3 (supersedes dexos1 Gen 2, LL-A-025, 6094M, 4718M) • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Honda HTO-06 • Ford WSS-M2C946-A, WSS-M2C929-A, WSS-M2C946-B1, WSS-M2C961-A1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OEFQT	EA	1 Quart	7.49	9.99
OEFQT	CA	12 Quarts	84.40	112.70
OEF1G	EA	1 Gallon	29.39	38.59
OEF1G	CA	4 Gallons	111.10	146.05

● OE 10W-30

Use in vehicles that require API SP (Resource Conserving), SN-PLUS, SN... • ILSAC GF-6A, GF-5, 4... • ACEA A5/B5, A1/B1 • Chrysler MS-6395 • Ford WSS-M2C205-A • GM 6094M, 4718M

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OETQT	EA	1 Quart	7.49	9.99
OETQT	CA	12 Quarts	84.40	112.70

Oil Analyzers

AMSOIL offers oil analysis service options from Oil Analyzers Inc.® By analyzing used engine oil, a qualified lab can detect mechanical problems your equipment may have developed. For more information, visit www.oiltesting.com.

STOCK#	PKG./SIZE	U.S. P.C.	CAN. P.C.
KIT01	1 sample kit (includes two-way postage) - U.S.	28.35	—
KIT02	1 sample kit (includes UPS shipping) - U.S.	28.35	—
KIT06	1 sample kit - U.S.	20.50	—
KIT14	1 value sample kit - U.S.	15.70	—
KIT401	1 sample kit (includes UPS shipping) - CAN.	—	52.05
KIT402	1 sample kit - CAN.	—	32.45
G1206	Oil Suction Pump w/10-ft. hose	26.25	34.65
G1571	Replacement Hose 25-ft.	8.35	11.00

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



Synthetic European Motor Oil



“My engine sounds better than it ever has. My BMW* has 70,000+ miles and has never sounded this good or smooth. You can tell a lot about engines just from the sound and this baby is purring like I’ve never heard it purr. I am very pleased and glad I made the switch to AMSOIL.”

– **Tom**
Atlanta, Ga.



Synthetic European Motor Oil

Specially formulated for the lubrication needs of European gasoline and diesel cars and light trucks.

0W-20 LS-VW³¹

Use in vehicles that require API SN-PLUS, SN... • ACEA C5 • Porsche C20 • VW 508.00/509.00/TL52577

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
EZTQT	EA	1 Quart	11.59	15.49
EZTQT	CA	12 Quarts	131.15	175.35

0W-20 LS

Use in vehicles that require API SN-PLUS (Resource Conserving), SN, SM... • ILSAC GF-5, GF-4... • ACEA C5, A1/B1 • BMW LL-17FE+ • MB 229.71 • Ford WSS-M2C947-B1 • Opel/Vauxhall OV0401547 • Fiat 9.55535-GSX • Chrysler MS-12145 • Volvo VCC RBS0-2AE

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AFEQT	EA	1 Quart	10.79	14.49
AFEQT	CA	12 Quarts	122.05	164.60

0W-40 FS

Use in vehicles that require ACEA A3/B3, A3/B4 • API SN/SM... • BMW LL-01 • MB 229.1/229.3/229.5 • Porsche A40 • Renault 0710, 0700 • VW/Audi 502.00/505.00

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
EFOQT	EA	1 Quart	11.19	14.39
EFOQT	CA	12 Quarts	127.00	163.35

5W-30 LS¹³

Manufacturer Approvals: VW 504.00/507.00

Use in vehicles that require API SN • ACEA C3 • GM dexos2 • Chrysler MS-11106 • MB 229.51 • BMW LL-04 • Porsche C30

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AELQT	EA	1 Quart	13.99	17.89
AELQT	CA	12 Quarts	158.40	203.20
AEL1G	EA	1 Gallon	54.99	—
AEL1G	CA	4 Gallons	208.50	—

5W-40 MS

Manufacturer Approvals: MB 229.51 • Porsche A40

Use in vehicles that require ACEA C3 • API SN/SM/CF... • BMW LL-04 • Chrysler MS-10850 (supersedes MS-10896) • Ford WSS-M2C917-A • GM dexos2 (supersedes LL-A-025 and LL-B-025) • Renault RN0700/RN0710 • VW/Audi 502.00/505.01

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AFLQT	EA	1 Quart	11.89	15.29
AFLQT	CA	12 Quarts	134.55	173.45
AFL1G	EA	1 Gallon	46.69	59.19
AFL1G	CA	4 Gallons	176.90	224.30

5W-40 FS¹³

Manufacturer Approvals: MB 229.5 • Porsche A40 • VW/Audi 502.00/505.00

Use in vehicles that require ACEA A3/B3, A3/B4 • API SN/SM... • BMW LL-01 • Renault 0710, 0700

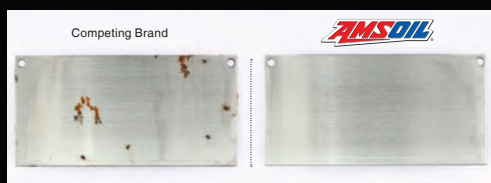
STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
EFMQT	EA	1 Quart	8.89	11.89
EFMQT	CA	12 Quarts	100.95	134.85
EFM1G	EA	1 Gallon	35.09	46.09
EFM1G	CA	4 Gallons	132.90	174.50

^{31,12} See page 47 for Proposition 65 information for this product.

Synthetic Classic/Collector Car Motor Oil

AMSOIL Delivers Superior Rust Protection

In industry-standard testing, AMSOIL Z-ROD® completely prevented rust formation while a leading competitor did not.^{1,2}



^{1,2}Based upon in-house testing of AMSOIL Z-ROD 10W-40 and a leading competitor obtained on 7/25/2019 in ASTM D1748-10.





Z-ROD® Synthetic Motor Oil

High-zinc, high-phosphorus formulation engineered specifically for classic cars and performance vehicles.

10W-30

Use in vehicles that require API SL, SJ...

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ZRTQT	EA	1 Quart	11.59	14.99
ZRTQT	CA	12 Quarts	131.70	169.65

10W-40

Use in vehicles that require API SL, SJ...

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ZRDQT	EA	1 Quart	11.59	14.99
ZRDQT	CA	12 Quarts	131.70	169.65

20W-50

Use in vehicles that require API SL, SJ...

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ZRFQT	EA	1 Quart	14.09	18.09
ZRFQT	CA	12 Quarts	159.25	205.10

Assembly Lube¹⁷

Formulated to cling to engine parts and provide exceptional wear protection in newly built or rebuilt high-performance, racing and other four-stroke engines.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
EALTB	EA	(1) 4-oz. Tube	8.59	10.89
EALTB	CA	(12) 4-oz. Tubes	96.95	123.45

Break-In Oil¹⁷

Allows for quick and efficient piston ring seating in new and rebuilt high-performance and racing engines.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
BRKQT	EA	1 Quart	8.89	11.69
BRKQT	CA	12 Quarts	100.95	132.95

Premium Protection Synthetic Motor Oil

Ideal for gasoline engines and diesel applications not equipped with diesel particulate filters (DPF), where the extra protection of a high-zinc and TBN formula is desired.

10W-40¹³

Use in vehicles that require API CI-4+/SL... • ISO-L-EMA • Caterpillar ECF-1 • JASO MA (Motorcycle) • MAN 271/3275 • MTU Type 2 • Cummins 20071/20072/20076/20077 • Volvo VDS-2, VDS • Mack EO-M+ • ACEA A3/B3/ E3/ E5 • MB 228.1, 228.3, 229.1 • Detroit Diesel 93K214

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AMOQT	EA	1 Quart	11.79	15.39
AMOQT	CA	12 Quarts	133.60	174.75
AM01G	EA	1 Gallon	46.39	—
AM01G	CA	4 Gallons	175.60	—
AMOTP	EA	(1) 2.5 Gallon	114.70	—
AMOTP	CA	(2) 2.5 Gallons	217.40	—

20W-50

Use in vehicles that require API CI-4+/SL... • ISO-L-EMA • Caterpillar ECF-1 • JASO MA (Motorcycle) • MAN 271/3275 • MTU Type 2 • Cummins 20071/20072/20076/20077 • Volvo VDS-2, VDS • Mack EO-M+ • ACEA A3/B3/ E3/ E5 • MB 228.1, 228.3, 229.1 • Detroit Diesel 93K214

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AROQT	EA	1 Quart	12.29	16.19
AROQT	CA	12 Quarts	139.50	183.60
AR01G	EA	1 Gallon	48.39	—
AR01G	CA	4 Gallons	183.45	—

^{17,13}See page 47 for Proposition 65 information for this product.

Synthetic Racing Oil



“AMSOIL products are the best on the market and definitely give us an added performance factor.”

— **Bryce Menzies**
Professional Off-Road Driver





DOMINATOR® Synthetic Racing Oil

Superior performance and maximum protection in high-performance and racing applications.

5W-20¹⁷

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
RD20QT	EA	1 Quart	14.39	18.39
RD20QT	CA	12 Quarts	163.45	208.90

10W-30¹⁷

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
RD30QT	EA	1 Quart	13.79	17.79
RD30QT	CA	12 Quarts	156.85	201.95

15W-50¹⁷

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
RD50QT	EA	1 Quart	14.49	18.59
RD50QT	CA	12 Quarts	164.40	210.80
RD501G	EA	1 Gallon	57.19	—
RD501G	CA	4 Gallons	216.65	—

SAE 60¹⁷

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
RD60QT	EA	1 Quart	14.99	19.09
RD60QT	CA	12 Quarts	169.70	217.15

20W-50 Synthetic Competition Diesel Oil¹⁸

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
DCOQT	EA	1 Quart	12.99
DCOQT	CA	12 Quarts	146.95
DCO1G	EA	1 Gallon	50.99
DCO1G	CA	4 Gallons	193.35

Briggs & Stratton Synthetic 4T Racing Oil¹⁷

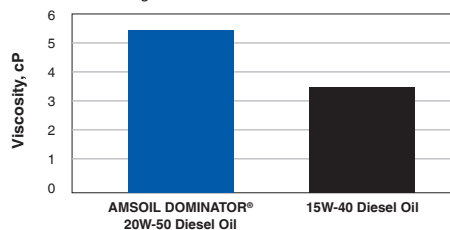
Formulated by AMSOIL specifically for stock and modified small-displacement air-cooled racing engines and recommended for any four-stroke air-cooled competition engine.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GBS2960	EA	1 Quart	11.25	14.95
GBS2960	CA	12 Quarts	134.90	179.40

DOMINATOR® Protects Better

DOMINATOR Competition Diesel Oil delivers **50% more** film thickness⁹ to withstand high cylinder pressures and protect against wear.

HIGH-TEMPERATURE/HIGH-SHEAR (HTHS) VISCOSITY
Higher = Better Wear Protection



⁹Compared to the 3.5 cP HTHS limit for SAE 15W-40.

^{17,18}See page 47 for Proposition 65 information for this product.

Synthetic Diesel Oil



Keeps Turbos Clean

Signature Series Max-Duty Synthetic Diesel Oil provides protection boosted to the max, delivering up to **60% better turbo cleanliness¹** and withstanding the extra demands you place on the turbo when pulling heavy loads or updating the tune for maximum horsepower.

¹Based on specification standards of CAT C13 2nd Ring Top Land Carbon testing.

AMSOIL Fights Wear

AMSOIL delivers **powerful engine protection**. How good is it? In independent testing compared to a leading brand, AMSOIL Signature Series Diesel Oil provided long-lasting wear protection, **keeping cylinder liners looking like new**.^{DD}



^{DD}Based on independent testing of AMSOIL 5W-30 Signature Series Max-Duty Synthetic Diesel Oil and a leading conventional 15W-40 diesel oil using the Detroit Diesel® DD13 Scuffing test for specification DFS 93K222.

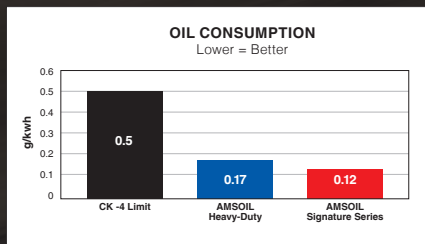
Protects Against Rust

Signature Series Max-Duty Synthetic Diesel Oil provides up to **2X better rust protection**.^K

^KBased on industry standard testing using the NIMMA FC-W Rust Test.

Reduces Oil Consumption

Heavy-Duty Synthetic Diesel Oil provides up to **66% less** oil consumption, while Signature Series Max-Duty Synthetic Diesel Oil provides up to **76% less** oil consumption.^L



^LThan required by the API CK-4 standard in the Caterpillar-1N oil consumption test.

DHD



DDT



DEO



DME



DZF



Signature Series Max-Duty Synthetic Diesel Oil

The top tier of AMSOIL protection and performance for diesel engines. **Provides 6X more engine protection.¹**

5W-30¹³

Use in vehicles that require API CK-4/SN, SN+, CJ-4... • ACEA E9, E7, E6 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.51, 228.31 • MTU Type 3.1, 2.1, II, I • MAN 3677, 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC IV-10 LA, DQC III-10 LA • Scania LA-2 • Chrysler MS 10902 • Ford WSS-M2C14-B1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DHDQT	EA	1 Quart	11.69	15.39
DHDQT	CA	12 Quarts	132.40	174.75
DHD1G	EA	1 Gallon	45.89	60.29
DHD1G	CA	4 Gallons	174.00	228.35
DHDTP	EA	(1) 2.5 Gallon	113.60	—
DHDTP	CA	(2) 2.5 Gallons	215.35	—

10W-30¹³

Use in vehicles that require API CK-4/SN, CJ-4... • Volvo VDS4.5, VDS4, VDS3 • Mack EOS-4.5, EO-O • Renault RLD-4, RLD-3 • Cummins CES20086, CES20081 • Caterpillar ECF-2, ECF-3, ECF-1-a • DFS 93K222, DDC 93K218, 93K215, 93K214 • ACEA E9, E7 • MB 228.31 • MAN 3575 • MTU Type 2.1, II, I • JASO DH-2 • Deutz DQC III-10 LA • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DDT1G	EA	1 Gallon	45.89	60.19
DDT1G	CA	4 Gallons	173.65	227.90
DDTTP	EA	(1) 2.5 Gallon	113.40	—
DDTTP	CA	(2) 2.5 Gallons	214.95	—

5W-40¹³

Use in vehicles that require API CK-4/SN, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.31 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Allison TES-439 • Scania LA-2 • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DEOQT	EA	1 Quart	11.39	15.09
DEOQT	CA	12 Quarts	129.55	171.55
DEO1G	EA	1 Gallon	44.89	58.89
DEO1G	CA	4 Gallons	170.20	223.05
DEOTP	EA	(1) 2.5 Gallon	111.15	145.45
DEOTP	CA	(2) 2.5 Gallons	210.65	275.70

15W-40¹³

Use in vehicles that require API CK-4/SN, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.31 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Allison TES-439 • Scania LA-2 • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DMEQT	EA	1 Quart	11.19	14.79
DMEQT	CA	12 Quarts	126.90	167.75
DME1G	EA	1 Gallon	43.99	57.69
DME1G	CA	4 Gallons	166.70	218.60
DMETP	EA	(1) 2.5 Gallon	108.80	142.45
DMETP	CA	(2) 2.5 Gallons	206.25	270.00

0W-40¹³

Delivers **4X better cold-temperature performance** when compared to SAE 15W-40 oil in ASTM D5293 Cold Cranking Viscosity test.

Use in vehicles that require API CK-4/SN, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DZFQT	EA	1 Quart	11.59	15.29
DZFQT	CA	12 Quarts	131.10	173.45
DZF1G	EA	1 Gallon	45.49	59.69
DZF1G	CA	4 Gallons	172.25	226.00

¹³than required by the Detroit Diesel DD13 Scuffing Test for Specification DFS 93K222 using 5W-30 as worst-case representation. ¹²See page 47 for Proposition 65 information for this product.



Heavy-Duty Synthetic Diesel Oil

Outstanding protection and performance for customers seeking an upgrade over conventional and other synthetic diesel oils. **Provides 4X more engine protection.¹**

● 10W-30¹³

Use in vehicles that require API CK-4, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.31 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADNQT	EA	1 Quart	7.79	10.39
ADNQT	CA	12 Quarts	88.00	117.75
ADN1G	EA	1 Gallon	30.59	—
ADN1G	CA	4 Gallons	115.65	—
ADNTP	EA	(1) 2.5 Gallon	75.15	98.70
ADNTP	CA	(2) 2.5 Gallons	142.45	187.10

● 5W-40¹³

Use in vehicles that require API CK-4, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.31 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Allison TES-439 • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADOQT	EA	1 Quart	8.09	10.89
ADOQT	CA	12 Quarts	91.60	123.45
ADO1G	EA	1 Gallon	31.79	41.99
ADO1G	CA	4 Gallons	120.45	159.10
ADOTP	EA	(1) 2.5 Gallon	78.35	103.20
ADOTP	CA	(2) 2.5 Gallons	148.45	195.60

● 15W-40¹³

Use in vehicles that require API CK-4, CJ-4... • ACEA E9, E7 • Mack EOS-4.5, EO-O • DFS 93K222, DDC 93K218, 93K215, 93K214 • Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES20086, CES20081 • Volvo VDS-4.5, VDS-4, VDS-3 • MB 228.31 • MTU Type 2.1, II, I • MAN 3575 • JASO DH-2 • Renault RLD-4, RLD-3 • Deutz DQC III-10 LA • Allison TES-439 • Chrysler MS 10902 • Ford WSS-M2C171-F1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADPQT	EA	1 Quart	7.79	10.39
ADPQT	CA	12 Quarts	88.05	117.75
ADP1G	EA	1 Gallon	30.59	40.19
ADP1G	CA	4 Gallons	115.65	152.35
ADPTP	EA	(1) 2.5 Gallon	75.15	98.65
ADPTP	CA	(2) 2.5 Gallons	142.45	186.95

100% Synthetic Diesel Oil

Provides outstanding protection, performance and fuel economy for smaller American diesel pickups, vans, cars and SUVs. **Delivers up to 6X better engine protection²** than required by a leading industry standard.

● 0W-20

Use in vehicles that require GM dexosD

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DP020QT	EA	1 Quart	10.19	13.69
DP020QT	CA	12 Quarts	115.60	155.75

● 5W-30

Use in vehicles that require GM dexosD, dexos2 • Chrysler MS-11106 • Ford WSSM2C214-B1 • ACEA C3

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DP530QT	EA	1 Quart	10.09	13.59
DP530QT	CA	12 Quarts	114.70	154.50

CI-4+ Synthetic Diesel Oils

Provide outstanding protection for on- and off-road diesel applications not equipped with diesel particulate filters (DPFs), where extra TBN is desired for long service intervals.

● Series 3000 5W-30 Synthetic Heavy Duty Diesel Oil¹³

Use in vehicles that require API CI-4+/SL... • Global DHD-1 • ACEA A3/B3, E2, E3, E5, E7 • JASO DH-1 • Mack EO-M, EO-N • DDC 93K214 • Caterpillar ECF-1-a, ECF-2 • Cummins CES 20076, 20077, 20078 • Volvo VDS-3, VDS-2 • MB 228.1, 228.3, 229.1 • MAN 271, 3275 • MTU Type II

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
HDDQT	EA	1 Quart	12.69	16.79
HDDQT	CA	12 Quarts	143.55	190.55
HDD1G	EA	1 Gallon	49.89	65.19
HDD1G	CA	4 Gallons	188.85	247.10
HDDTP	EA	(1) 2.5 Gallon	123.45	—
HDDTP	CA	(2) 2.5 Gallons	233.95	—

Discontinued and available while supplies last. For a serious upgrade, try Signature Series Max-Duty 5W-30. See page 25.

● 15W-40 Synthetic Heavy Duty Diesel and Marine Oil¹³

Use in vehicles that require API CI-4+/SL... • Global DHD-1 • ACEA A3/B3, E2, E3, E5, E7 • JASO DH-1 • Mack EO-M, EO-N • DDC 93K214 • Caterpillar ECF-1-a, ECF-2 • Cummins CES 20076, 20077, 20078 • Volvo VDS-3, VDS-2 • MB 228.1, 228.3, 229.1 • MAN 271, 3275 • MTU Type II

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AMEQT	EA	1 Quart	11.79	15.49
AMEQT	CA	12 Quarts	133.10	176.00
AME1G	EA	1 Gallon	46.19	60.49
AME1G	CA	4 Gallons	174.90	229.15
AMETP	EA	(1) 2.5 Gallon	114.25	149.50
AMETP	CA	(2) 2.5 Gallons	216.50	283.40

Like Heavy Duty Diesel and Marine Oil? Try Signature Series Max-Duty 15W-40 for a serious upgrade. See page 25.

¹than required by the Detroit Diesel DD13 Scuffing Test for Specification DFS 93K222 using 10W-30 as worst-case representation. ²Based on third-party testing in the OM646LA cam wear test using 0W-20 as worst-case representation. ¹³See page 47 for Proposition 65 information for this product.

Synthetic Transmission Fluid



Signature Series Synthetic ATF

Provides reserve protection in fleet vehicles, work trucks and other severe-service applications that quickly break down other lubricants.

● Multi-Vehicle¹⁷

Use in applications that require Allison C-4, TES-389 - BMW 7045E, 8072B, LA 2634, LT 71141 - Chrysler ATF-4, Mopar ASRC, 68089195AA, 68049954AA - Ford MERCON, MERCON V, ESP-M2C166-H, FNR5, M2C924-A, XL-12 - GM DEXRON II, DEXRON III, AutoTrak II - Honda/Acura ATF-Z1 - Hyundai/Kia SP-II, SP-III, Red-1 - IDEMITSU K17 - JASO 1A - JWS 3309, 3314, 3317 - MAN 339 Type V-1, 339 Type V-2, 339 Type Z-1, 339 Type Z-2, 339 Type Z-3, 339F - Mazda ATF-M III, ATF-MV, F-1 - Mercedes Benz 236.1, 236.2, 236.3, 236.5, 236.6, 236.7, 236.9, 236.10, 236.11, 236.81, 236.91 - Mitsubishi SP-II, SP-III, ATF-J2 - Nissan Matic-D, Matic-J, Matic-K, 402 - Saab 3309 - Shell 3403, LA 2634 - Subaru ATF, ATF-HP - Suzuki 3314, 3317 - Texaco ETL-7045E, ETL-8072B, N402 - Toyota Type T, T-II, T-III, T-IV - Voith 55.6335, 55.6336 - Volvo 97340, 97341 - VW/Audi G 052 162, G 052 990, G 055 025 - ZF TE-ML 03D, 04D, 05L, 09, 11A, 11B, 14A, 14B, 14C, 16L, 16M, 17C, 20B, 20C, 21L

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATFQT	EA	1 Quart	14.59	18.59
ATFQT	CA	12 Quarts	165.30	210.80
ATFPK	EA	1 Quart Easy-Pack	16.09	20.59
ATFPK	CA	12 Quart Easy-Packs	183.10	233.60
ATF1G	EA	1 Gallon	57.49	-
ATF1G	CA	4 Gallons	217.85	-
ATFTP	EA	(1) 2.5 Gallon	142.55	179.05
ATFTP	CA	(2) 2.5 Gallons	270.20	339.40

● Fuel-Efficient¹⁷

Provides the same benefits as AMSOIL Multi-Vehicle Synthetic Automatic Transmission Fluid in a fuel-efficient formulation engineered to exceed the requirements of original equipment manufacturers (OEMs) specifying low-viscosity oil.

Use in applications that require Aisin-Warner AW-1 - BMW 83 22 0 142 516, 83 22 2 152 426 - Chrysler Mopar 68157995AA, SP-IV, 68218925AB - DSIH 6p805 - Ford MERCON LV, SP ULV - GM DEXRON HP VI, ULV - Honda/Acura DW-1, Type 3.0 - Hyundai/Kia SP-IV, SPH-IV, SP-IV-RR, NWS-9638, SP4-M - JASO 1A-LV - JWS 3324 - Mercedes Benz 236.12, 236.14, 236.15, 236.41 - Mitsubishi SP-IV, ATF J3, ATF-PA - Nissan Matic-S, Matic-W - Saab 93 165 147 - Shell M-1375.4, M-1375.5, M-1375.6, M-L 12108 - Toyota WS - Volvo 31256774 - VW/Audi G 055 005, G 055 162, G 060 162 - ZF S671 090 255

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATLQT	EA	1 Quart	14.59	19.19
ATLQT	CA	12 Quarts	165.45	217.80
ATLPK	EA	1 Quart Easy-Pack	16.29	21.39
ATLPK	CA	12 Quart Easy-Packs	184.45	243.10
ATL1G	EA	1 Gallon	57.59	-
ATL1G	CA	4 Gallons	218.05	-
ATLTP	EA	(1) 2.5 Gallon	142.70	184.80
ATLTP	CA	(2) 2.5 Gallons	270.45	350.30



OE Synthetic ATF

Resists wear and provides smooth shifts in passenger-car/light-truck automatic transmissions.

● Multi-Vehicle¹⁷

Use in applications that require Allison C-4, TES-389 - BMW 7045E, 8072B, LA 2634, LT 71141 - Chrysler ATF-4, Mopar ASRC, 68089195AA, 68049954AA - Ford MERCON, MERCON V, ESP-M2C166-H, FNR5, M2C924-A, XL-12 - GM DEXRON II, DEXRON III, AutoTrak II - Honda/Acura ATF-Z1 - Hyundai/Kia SP-II, SP-III, Red-1 - IDEMITSU K17 - JASO 1A - JWS 3309, 3314, 3317 - MAN 339 Type V-1, 339 Type V-2, 339 Type Z-1, 339 Type Z-2, 339F - Mazda ATF-M III, ATF-MV, F-1 - Mercedes Benz 236.1, 236.2, 236.3, 236.5, 236.6, 236.7, 236.9, 236.10, 236.11, 236.81, 236.91 - Mitsubishi SP-II, SP-III, ATF-J2 - Nissan Matic-D, Matic-J, Matic-K, 402 - Saab 3309 - Shell 3403, LA 2634 - Subaru ATF, ATF-HP - Suzuki 3314, 3317 - Texaco ETL-7045E, ETL-8072B, N402 - Toyota Type T, T-II, T-III, T-IV - Voith 55.6335, 55.6336 - Volvo 97340, 97341 - VW/Audi G 052 162, G 052 990, G 055 025 - ZF TE-ML 03D, 04D, 05L, 09, 11A, 11B, 14A, 14B, 16L, 17C, 20B, 21L

¹⁷AMSOIL warrants the use of this product for Chrysler ATF-4 applications above -38°F. Product does not meet the cold temperature requirement of ATF-4 at -40°F. For warranty information, visit www.amsoil.com/warranty.aspx.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OTFQT	EA	1 Quart	9.39	12.49
OTFQT	CA	12 Quarts	106.75	141.80
OTF1G	EA	1 Gallon	37.09	-
OTF1G	CA	4 Gallons	140.65	-
OTFTP	EA	(1) 2.5 Gallon	91.65	119.60
OTFTP	CA	(2) 2.5 Gallons	173.70	226.65

● Fuel-Efficient¹⁷

Provides the same benefits as AMSOIL OE Multi-Vehicle Synthetic Automatic Transmission Fluid in a fuel-efficient formulation engineered to exceed the requirements of original equipment manufacturers (OEMs) specifying low-viscosity oil.

Use in applications that require Aisin-Warner AW-1 - BMW 83 22 0 142 516, 83 22 2 152 426 - Chrysler Mopar 68157995AA, SP-IV, 68218925AB - DSIH 6p805 - Ford MERCON LV - GM DEXRON VI - Honda/Acura DW-1, Type 3.0 - Hyundai/Kia SP-IV, SPH-IV, SP-IV-RR, NWS-9638, SP4-M - JASO 1A-LV - JWS 3324 - Mercedes Benz 236.12, 236.14, 236.15, 236.41 - Mitsubishi SP-IV, ATF J3, ATF-PA - Nissan Matic-S, Matic-W - Saab 93 165 147 - Shell M-1375.4, M-1375.5, M-1375.6, M-L12108 - Toyota WS - Volvo 31256774 - VW/Audi G 055 005, G 055 162, G 060 162 - ZF S671 090 255

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
OTLQT	EA	1 Quart	9.39	12.59
OTLQT	CA	12 Quarts	106.90	142.45
OTL1G	EA	1 Gallon	37.19	-
OTL1G	CA	4 Gallons	140.85	-
OTLTP	EA	(1) 2.5 Gallon	91.75	120.65
OTLTP	CA	(2) 2.5 Gallons	173.90	228.65

¹⁷See page 47 for Proposition 65 information for this product.

"Changed out the transmission fluid in my GMC* 2500 with the AMSOIL OE. The difference is noticeable with how smooth the truck shifts. Great product."

— **Jimmy**
Upstate NY



○ Synthetic CVT Fluid

Provides outstanding protection and performance for continuously variable transmissions (CVT) throughout original equipment manufacturer (OEM)-recommended drain intervals.

Use in belt- and chain-type CVTs that require BMW EZL 799A (8322 0 136 376 / 8322 0 429 154) • Daihatsu Amix CVTF-DG, CVTF-DFE • FCA Mopar CVTF +4 (Mopar CVT 4) • Ford M2C928-A (CFT 23), WSS-M2C933-A (CFT 30), Motorcraft XT-7-QCFT, MERCON C • GM DEX-CVT, GM CVT (CVTF-I-Green2) • Honda HMMF (08200-9006), HCF-2 • Hyundai/Kia SP-CVT 1 • Mazda CVTF 3320 • Mercedes-Benz 236.20 (001 989 46 03) • Mitsubishi CVTF-J1, CVTF-J4 • Nissan NS-1, NS-2, NS-3 • Subaru e-CVT, i-CVT F, Lineartronic CV-30, Lineartronic CVTF/CVT-II (K0425Y0710), High Torque CVTF • Suzuki CVT Fluid Green 1, CVT Fluid Green 2 (NS-2), CVTF 3320 (TC) • Toyota/Lexus TC, FE • VW/Audi TL 52180 (G 052 180), TL 52516 (G 052 516)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
CVTQT	EA	1 Quart	13.39	17.59
CVTQT	CA	12 Quarts	151.45	200.05
CVT1G	EA	1 Gallon	52.59	—
CVT1G	CA	4 Gallons	199.35	—

● 100% Synthetic DCT Fluid

Designed to protect high-tech dual-clutch transmissions during the most intense, high-heat operating conditions.

Use in applications that require BMW 83 22 2 148 578, 83 22 2 148 579, 83 22 0 440 214, 83 22 2 147 477, DCTF-1, MTF-LT-5 • Chrysler 68044345 • Citroën/Peugeot 9734.S2 • Ferrari/Shell TF DCTF-3 • Fiat BOT 341 • Ford WSS-M2C936-A, WSS-M2C200-D2, XT-11-GDC • Mercedes-Benz 236.21, 236.25 • Mitsubishi Dia-Queen SSTF-I • Nissan GT-R Transmission Oil R35 Special • Pentosin FFL-2, FFL-3, FFL-4 • Porsche 999.917.080.00, 043 207.29, 043 207.30, 000 430 20 • Renault BOT 450 • Volvo 1161838, 1161839 • VW/Audi G 052 182, G 052 529, TL 521 82

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DCTQT	EA	1 Quart	20.79	27.79
DCTQT	CA	12 Quarts	236.30	315.90

○ Synthetic Manual Transmission and Transaxle Gear Lube¹⁵

Provides improved internal component protection. Formulated with extreme-pressure additives and advanced frictional qualities that provide smooth shifts while protecting gears, bearings and seals. Non-corrosive to yellow metals.

Use in applications that require API GL-4 • ZF TE-ML 02B, 17A, MB 235.5 & MAN 341-Z2 (formerly MAN 341 ML) • Synchronized manual transmissions and transaxles that require 75W-85, 75W-90 or 80W-90 API GL-4 Gear Lube • NV 4500 Transmissions • GM Part #12346190 • Chrysler Part #4874459 • Chrysler Spec MS-9070 • Certain Hyundai, Hino, Infiniti, Kia, Lexus, Mazda, Mitsubishi, Nissan, Suzuki, Toyota & Volkswagen models requiring GL-4

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MTGQT	EA	1 Quart	17.49	22.39
MTGQT	CA	12 Quarts	198.45	254.50
MTGPK	EA	1 Quart Easy-Pack	19.09	24.49
MTGPK	CA	12 Quart Easy-Packs	217.10	278.55

● Synthetic Synchronmesh Transmission Fluid

Specifically designed to deliver smooth shifts and superior wear protection in manual transmissions and transaxles with synchronizers.

Use in applications that require New Venture NV T350, NV1500, NV2500, NV3500, NV3550 & NV5600 • Tremec T4, T5, T18, T56, T176, TK0500, TK0600, TR3550 (GM Vehicles) & TR3450 • Honda Genuine MTF • GM Part #12345349, #12345577, #12377916 & #1052931 • Chrysler Part #4874464 & #4874465 • GM Specs #9985648, #9986105 & #9985535 • Chrysler Specs MS-9224 & MS-9417 • MTF-94 & Texaco MTX Fluids

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MTFQT	EA	1 Quart	15.79	20.29
MTFQT	CA	12 Quarts	178.65	229.80

○ Super Shift[®] Synthetic Racing Transmission Fluid¹⁷

Formulated to prevent slippage and reduce heat in high-performance, high-horsepower vehicles.

Use in transmissions that require Allison C-4 • Ford Type F

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ARTQT	EA	1 Quart	13.89	17.69
ARTQT	CA	12 Quarts	157.40	200.70

● Torque-Drive[®] Synthetic Heavy-Duty ATF¹⁷

Premium fluid designed for use in both on- and off-highway heavy-duty equipment.

Use in transmissions that require Allison C-4, TES-295, TES-389; Ford MERCON® V; GM DEXRON® III; Isuzu SCS; MAN 339 Type V-1, 339 Type V-2, 339 Type Z-1, 339 Type Z-2, 339 Type Z-3, 339F; MB 236.91, 236.10; Voith 55.6335, 55.6336; Volvo 97340, 97341; ZF TE-ML 03D, TE-ML 04D, TE-ML 14A, TE-ML 14B, TE-ML 14C, TE-ML 17C, TE-ML 20B, TE-ML 20C

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATD1G	EA	1 Gallon	56.69	74.29
ATD1G	CA	4 Gallons	214.90	281.50
ATDTP	EA	(1) 2.5 Gallon	140.65	—
ATDTP	CA	(2) 2.5 Gallons	266.55	—

● Synthetic Tractor Hydraulic/Transmission Oil¹³

Formulated for combinations of transmissions, hydraulic systems, final drives, power take-off systems and wet brakes in heavy-duty farm and industrial equipment as well as commercial and residential lawn tractors.

Use in hydraulic systems that require SAE 5W-30

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATHQT	EA	1 Quart	11.39	14.49
ATHQT	CA	12 Quarts	129.50	164.60

^{15,17,19} See page 47 for Proposition 65 information for this product.

Synthetic Gear Lube



“Whoever invented the easy-pack concept is a genius. Especially for servicing transfer cases and differentials. It lives up to its name. Not only an innovative oil, but innovative packaging as well.”

– **Joey**
Calif.



SEVERE GEAR® Synthetic Gear Lube

Specifically engineered for high-demand applications, including trailer towing, heavy hauling, 4x4 off-road driving, commercial use and racing. Flexible easy-pack helps you access tough-to-reach fill holes and eliminates the need for a pump.

● 75W-90

Use in differentials that require API GL-5/MT-1 • MIL-PRF-2105E • MACK GO-J • Dana SHAES 234 (Eaton PS-037)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
SVGQT	EA	1 Quart	17.29	21.99
SVGQT	CA	12 Quarts	196.45	250.05
SVGPK	EA	(1) Quart Easy-Pack	17.29	21.99
SVGPK	CA	(12) Quart Easy-Packs	196.45	250.05

○ 80W-90¹³

Use in differentials that require API GL-5/MT-1 • MIL-PRF-2105E • MACK GO-J • Dana SHAES 234 (Eaton PS-037)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AGLQT	EA	1 Quart	13.09	16.59
AGLQT	CA	12 Quarts	148.20	188.65
AGLPK	EA	1 Quart Easy-Pack	14.69	18.69
AGLPK	CA	12 Quart Easy-Packs	166.65	212.10

● 75W-110

Use in differentials that require API GL-5/MT-1 • MIL-PRF-2105E • MACK GO-J • Dana SHAES 234 (Eaton PS-037)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
SVTQT	EA	1 Quart	17.49	22.29
SVTQT	CA	12 Quarts	198.30	253.20
SVTPK	EA	1 Quart Easy-Pack	19.19	24.49
SVTPK	CA	12 Quart Easy-Packs	217.85	278.55

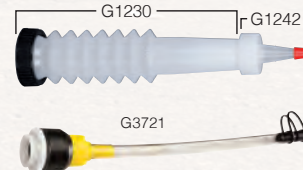
● 75W-140

Use in differentials that require API GL-5/MT-1 • MIL-PRF-2105E • MACK GO-J • Dana SHAES 234 (Eaton PS-037)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
SVOQT	EA	1 Quart	18.99	24.79
SVOQT	CA	12 Quarts	216.00	281.70
SVOPT	EA	(1) Quart Easy-Pack	18.99	24.79
SVOPT	CA	(12) Quart Easy-Packs	216.00	281.70

Easy Installation

PRODUCT	STOCK#	U.S. P.C.	CAN. P.C.
Hand Pump	G2039	10.50	13.65
Flexible Pour Spout	G1230	0.80	1.05
Nozzle Dispenser Caps (6)	G1242	1.05	1.60
FloTool Flexible Pour Spout	G3721	4.20	5.65



^{13,21,28} See page 47 for Proposition 65 information for this product.



● Slip Lock® Differential Additive²¹

Designed to eliminate gear-housing chatter in cars, trucks and SUVs equipped with limited-slip differentials.

Note: AMSOIL synthetic gear lubes do not require the use of this additive. However, not all differentials respond the same and if chatter is noticed, the addition of AMSOIL Slip Lock will eliminate it.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADATB	EA	(1) 4-oz. Tube	8.69	11.49
ADATB	CA	(12) 4-oz. Tubes	98.00	129.80

SEVERE GEAR® EP Synthetic Racing Gear Lube

Engineered specifically for the demands of severe racing conditions, including off-road truck racing, rock racing, rock crawling, tractor pulling, funny car racing and dragster racing applications.

● SAE 250²⁸

Use in differentials that require API GL-5/MT-1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
SRTQT	EA	1 Quart	18.19	23.29
SRTQT	CA	12 Quarts	206.05	264.60

Long Life Synthetic Gear Lube

Specifically engineered for extended drain intervals up to 500,000 miles (804,672 km) as set by equipment manufacturers for over-the-road trucks and heavy equipment.

● 75W-90¹³

Use in differentials that require API GL-5/MT-1 • MIL-PRF-2105E • MACK GO-J • Dana SHAES 256 (Eaton PS-163)

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
FGRQT	EA	1 Quart	14.99	18.49
FGRQT	CA	12 Quarts	170.45	210.20
FGR1G	EA	1 Gallon	59.39	—
FGR1G	CA	4 Gallons	225.15	—

Fuel Additives



Gasoline Stabilizer¹³

Helps prevent the formation of varnish and sludge in stored seasonal equipment such as snowmobiles, lawnmowers, motorcycles and boats.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ASTCN	EA	(1) 16-oz. Bottle	11.69	15.49
ASTCN	CA	(6) 16-oz. Bottles	66.30	87.70

AMSOIL Fights Corrosion

AMSOIL Gasoline Stabilizer provides corrosion protection Sea Foam® Motor Treatment can't match, helping maintain power and performance and keeping metal looking like new even when subjected to salt water.*



Sea Foam



AMSOIL

*Based upon independent testing of AMSOIL Gasoline Stabilizer obtained Nov. 8, 2018 and Sea Foam Motor Treatment purchased Oct. 25, 2018 in a modified NACE TM0172 using synthetic sea water per ASTM D665 part B.

Upper Cylinder Lubricant¹³

Lubricates fuel system and upper cylinders. Fights ethanol-related corrosion. Helps keep injectors clean. Bottle compatible with capless fuel systems. Use entire bottle at every fill-up.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
UCLCN	EA	(1) 6-oz. Bottle	4.49	6.09
UCLCN	CA	(12) 6-oz. Bottles	50.45	69.00

P.i.® Performance Improver¹³

Concentrated detergent aggressively cleans stubborn, power-robbing deposits from injectors, valves and the combustion chamber in passenger cars and light trucks. Bottle compatible with capless fuel systems.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
APICN	EA	(1) 12-oz. Bottle	12.99	16.69
APICN	CA	(12) 12-oz. Bottles	147.75	189.30

¹³See page 47 for Proposition 65 information for this product.



Quickshot®

Effectively addresses performance issues related to ethanol, water and dirty pump gas in two- and four-stroke gasoline-powered engines and powersports equipment fuel systems, restoring peak performance.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AQSCN	EA	(1) 8-oz. Bottle	9.19	12.19
AQSCN	CA	(6) 8-oz. Bottles	52.20	69.00

DOMINATOR® Octane Boost²¹

Improves the performance of all two- and four-stroke gasoline-fueled engines.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AOBBE	EA	(1) 12-oz. Bottle	9.89	12.89
AOBBE	CA	(6) 12-oz. Bottles	55.75	72.80

Diesel Recovery²¹

Emergency diesel fuel treatment that liquefies gelled diesel fuel and thaws frozen fuel filters. Keep a bottle on hand for emergencies.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DRCQT	EA	(1) 30-oz. Bottle	12.39	16.39
DRCQT	CA	(12) 30-oz. Bottles	140.85	185.50

Diesel All-In-One²⁵

Combines the superior deposit-removing properties of Diesel Injector Clean, the excellent anti-gelling properties of Diesel Cold Flow and the cetane-boosting benefits of Diesel Cetane Boost in one convenient package.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADBPEN	EA	(1) 8-oz. Bottle	5.99	--
ADBPEN	CA	(6) 8-oz. Bottles	33.85	--
ADBCN	EA	(1) 16-oz. Bottle	10.59	14.19
ADBCN	CA	(12) 16-oz. Bottles	119.95	161.45
ADBHG	EA	(1) 64-oz. Bottle	37.59	--
ADBHG	CA	(6) 64-oz. Bottles	213.40	--

Superior Cold-Temperature Protection

AMSOIL Diesel All-In-One provides as much as **32°F (18°C) better protection** against cold-temperature gelling than Howes® Lubricator Diesel Treat.^M Plus raises cetane up to 4 points.

^MBased on independent testing in July 2017 of AMSOIL Diesel All-In-One and Howes Lubricator Diesel Treat using diesel fuel representative of the U.S. marketplace and Howes' recommended treat ratio for above 0°F (-17.8°C).



Diesel Cold Flow¹⁷

Effectively modifies wax crystal formation at low temperatures to depress diesel fuel pour point and improve cold-flow filtration properties. Lowers cold filter-plugging point (CFPP) by up to 40°F (22°C) in ultra-low-sulfur diesel (ULSD).

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ADDCN	EA	(1) 16-oz. Bottle	8.89
ADDCN	CA	(12) 16-oz. Bottles	100.75

Diesel Cetane Boost

Raises the cetane number of diesel fuel up to eight points for maximum horsepower, increased fuel economy and easier starts in all diesel engines. Diesel engines operate best on fuel with cetane values of 50 or higher. Most diesel fuel sold in North America has a cetane value of 40-45.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ACBCN	EA	(1) 16-oz. Bottle	9.29	12.49
ACBCN	CA	(12) 16-oz. Bottles	105.65	141.80
ACBHG	EA	(1) 64-oz. Bottle	31.59	--
ACBHG	CA	(6) 64-oz. Bottles	179.60	--

Diesel Injector Clean¹⁹

Targets traditional nozzle deposits, combustion chamber deposits and internal diesel injector deposits found in HPCR injectors. Lubricates to reduce fuel pump and injector wear. Concentrated for rapid results, maximum horsepower and up to 8 percent increased fuel economy in engines with accumulated deposits.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADFCN	EA	(1) 8-oz. Bottle	4.79	--
ADFCN	CA	(6) 8-oz. Bottles	26.90	--
ADFCN	EA	(1) 16-oz. Bottle	8.29	11.19
ADFCN	CA	(12) 16-oz. Bottles	93.70	126.60
ADFHG	EA	(1) 64-oz. Bottle	28.39	--
ADFHG	CA	(6) 64-oz. Bottles	160.95	--

Diesel Injector Clean + Cetane Boost²¹

Combines the superior deposit-removing properties of Diesel Injector Clean with the cetane-boosting benefits of Diesel Cetane Boost in one convenient package.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ADSPCN	EA	(1) 8-oz. Bottle	5.09	--
ADSPCN	CA	(6) 8-oz. Bottles	28.75	--
ADSCN	EA	(1) 16-oz. Bottle	12.49	16.59
ADSCN	CA	(12) 16-oz. Bottles	141.30	188.05
ADSHG	EA	(1) 64-oz. Bottle	42.09	--
ADSHG	CA	(6) 64-oz. Bottles	239.40	--

^{21,25,17,19}See page 47 for Proposition 65 information for this product.

Extended Filter Life

- AMSOIL Oil Filters designated with product code EA15K are recommended for 15,000 miles (24,100 km) or one year, whichever comes first, in normal or severe service. NOTE: Change oil filter at every oil change.
- AMSOIL Oil Filters designated with product code EAO are recommended for 25,000 miles (40,200 km) or one year, whichever comes first, in normal service or 15,000 miles (24,100 km) or one year, whichever comes first, in severe service. NOTE: Change oil filter at every oil change.
- When AMSOIL Oil Filters are used with a motor oil other than AMSOIL motor oil, the filter should be changed according to the vehicle manufacturer's recommendation.

Oil Filters

AMSOIL Oil Filters rank among the highest efficiency filters available to the auto/light-truck and powersports markets, providing a filtering efficiency of 99 percent at 20 microns. Featuring advanced full-synthetic technology, AMSOIL Oil Filters provide greater efficiency, capacity and durability than cellulose filters, extending engine and filter life and reducing engine wear. Easy-grip coating eases the job of tightening and loosening filters. Call 1-800-777-7094 (Monday-Friday, 7 a.m.- 7 p.m. Central Time) or look up your vehicle at AMSOIL.com to determine the appropriate filter for each application. NOTE: Change oil filter at every oil change.



Oil Filters

STOCK#	UNITS	U.S. P.C.	CAN. P.C.	STOCK#	UNITS	U.S. P.C.	CAN. P.C.
EA15K01	EA	20.65	27.45	EA15K32	EA	18.20	24.15
EA15K02	EA	20.95	27.80	EA034	EA	19.00	25.20
EA15K03	EA	19.30	25.60	EA15K35	EA	18.20	24.10
EA15K04	EA	20.05	26.60	EA15K37	EA	15.75	20.90
EA15K05	EA	19.45	25.75	EA15K38	EA	16.05	21.30
EA15K06	EA	16.95	22.50	EA15K39	EA	24.35	32.30
EA15K07	EA	14.50	19.25	EA042	EA	18.50	24.55
EA15K08	EA	21.30	28.20	EA15K43	EA	20.65	27.45
EA15K09	EA	19.25	25.55	EA15K49	EA	27.75	36.85
EA011	EA	17.90	23.75	EA15K50	EA	16.90	22.45
EA15K12	EA	17.40	23.05	EA15K51	EA	17.40	23.05
EA15K13	EA	18.25	24.25	EA052	EA	19.25	25.55
EA015	EA	19.10	25.40	EA15K53	EA	17.90	23.75
EA15K16	EA	18.20	24.10	EA15K54	EA	23.45	31.10
EA017	EA	17.60	23.35	EA055	EA	30.80	40.85
EA15K19	EA	18.20	24.15	EA059	EA	18.70	24.80
EA15K20	EA	19.10	25.40	EA064	EA	17.75	23.60
EA023	EA	17.90	23.75	EA080	EA	20.50	27.20
EA024	EA	19.30	25.65	EA15K88	EA	37.60	49.90
EA026	EA	20.95	27.85	EA098	EA	33.30	44.20
EA15K28	EA	19.10	25.40	EA099	EA	34.50	45.80
EA15K29	EA	18.50	24.55				

EAHD



Heavy-Duty Extended-Life Oil Filters

Provide excellent 99 percent 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.

See AMSOIL.com or call (715) 399-8324 (TECH) (Monday-Friday, 8 a.m. - 5 p.m. Central Time) for application information.

EABP



Bypass Filters

High-efficiency bypass filters effectively remove minute dirt particles and soot by working in conjunction with the engine's full-flow filter and capturing contaminants that full-flow filter can't remove.

See AMSOIL.com or call (715) 399-8324 (TECH) (Monday-Friday, 8 a.m. - 5 p.m. Central Time) for application information.

Grease



Synthetic Polymeric Off-Road Grease

Extreme-pressure, moly-fortified grease that provides outstanding protection for heavy-load-bearing applications, including steering knuckles, spring shackles, heavy equipment pivot joints and other components operating in high-load, low-speed conditions.

● Synthetic Polymeric Off-Road Grease³⁶

Use in applications that require NLGI No. 1, 5% Moly

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GPOR1CR	EA	(1) 15-oz. Cartridge	10.59	13.69
GPOR1CR	CA	(10) 15-oz. Cartridges	104.50	135.60

● Synthetic Polymeric Off-Road Grease³⁶

Use in applications that require NLGI No. 2, 5% Moly

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GPOR2CR	EA	(1) 15-oz. Cartridge	11.09	14.49
GPOR2CR	CA	(10) 15-oz. Cartridges	109.20	140.85

Synthetic Polymeric Truck, Chassis/Equipment Grease

Delivers excellent wear protection and performance in severe-service, extreme-pressure environments such as axle assemblies, U-joints, pivot pins, fifth-wheel plates, steering linkages, kingpins, water pump bearings, ball joints and other greasable bearings and chassis components.

● Synthetic Polymeric Truck, Chassis/Equipment Grease³⁵

Use in applications that require NLGI No. 1

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GPTR1CR	EA	(1) 14-oz. Cartridge	8.99	11.99
GPTR1CR	CA	(10) 14-oz. Cartridges	89.10	118.70

● Synthetic Polymeric Truck, Chassis/Equipment Grease³⁵

Use in applications that require NLGI No. 2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GPTR2CR	EA	(1) 14-oz. Cartridge	9.69	12.89
GPTR2CR	CA	(10) 14-oz. Cartridges	95.75	127.15



DOMINATOR® Synthetic Racing Grease

High-performance bearing and chassis lubrication for all race applications on snow, dirt, water and track. Designed for bearings that operate under high-speed, high-heat and low-temperature conditions.

Use in applications that require NLGI No. 2, GC/LB

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GRGCR	EA	(1) 14-oz. Cartridge	13.79	17.39
GRGCR	CA	(10) 14-oz. Cartridges	134.60	169.35

Synthetic Multi-Purpose Grease

Delivers premium wear protection for bearings, bushings, chassis lubrication and other applications.

Use in applications that require NLGI No. 2 • GC/LB

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GLCCR	EA	(1) 14-oz. Cartridge	8.69	11.49
GLCCR	CA	(10) 14-oz. Cartridges	84.05	111.35

Synthetic Water-Resistant Grease

Provides outstanding water-washout and spray-off resistance for applications frequently exposed to water, mud, snow or ice.

Use in applications that require NLGI No. 2 • GC/LB

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
GWRCR	EA	(1) 14-oz. Cartridge	8.89	11.69
GWRCR	CA	(10) 14-oz. Cartridges	85.30	112.90

Spray Grease

Applies quickly and evenly and is ideal for greasing hard-to-reach equipment, including hinges, springs, industrial chains, latches, slides, winches and other common applications.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
GSPSC	EA	(1) 10-oz. Spray Can	8.49
GSPSC	CA	(12) 10-oz. Spray Cans	96.40

^{36,35}See page 47 for Proposition 65 information for this product.

Synthetic ATV/UTV Oil



Formulated to deliver premium protection and performance for hard-working and performance ATVs and UTVs.



Synthetic ATV/UTV Motor Oil

Formulated to provide upgraded performance and protection for hard-working and performance ATVs and UTVs.

10W-40

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AUV40QT	EA	1 Quart	12.29	16.19
AUV40QT	CA	12 Quarts	139.45	184.25

5W-50

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AUV50QT	EA	1 Quart	12.59	16.09
AUV50QT	CA	12 Quarts	142.25	182.35

Synthetic ATV/UTV Transmission & Differential Fluid

Use in ATV and UTV transmissions and differentials, including those made by Polaris*, Honda*, Yamaha*, Kawasaki*, Can Am* and Suzuki*.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AUDTQT	EA	1 Quart	13.99	18.09
AUDTQT	CA	12 Quarts	159.05	205.75
AUDTPK	EA	1 Quart Easy-Pack	15.69	20.39
AUDTPK	CA	12 Quart Easy-Packs	178.45	231.05

Synthetic ATV/UTV Powertrain Fluid¹³

Purpose-built for transmission/differentials and front drives in Polaris* ATVs and UTVs, offering the perfect combination of protection and convenience.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AUPTPK	EA	1 Quart Easy-Pack	14.39	18.99
AUPTPK	CA	12 Quart Easy-Packs	163.55	215.90

ATV/UTV Oil Change Kits for Polaris* Vehicles

FITMENT INFO:

PK1: ACE* 900, GENERAL* 1000, 2013+ RANGER* 900 & 1000, 2013+ RZR* 900 & 1000

PK2: ATP* 330, 500, Hawkeye* 300, 400, Magnum* 325, 330, 500, RANGER* 400, Model years 2016 and previous - RANGER* 500, Scrambler* 500, 850, 1000, Sportsman* 300, 400, 450, 500, 550, 570, 850, 1000, Trail Blazer* 330, Trail Boss* 325, 330, Xplorer* 500

PK3: ACE* 500, 570, 2017+ RANGER* 500, RANGER* 570, 700, 800, RZR* 570, 800, Sportsman* 600, 700, 800

Contains everything needed to perform an oil change on most Polaris UTVs and ATVs using AMSOIL Synthetic 5W-50 ATV/UTV Motor Oil. See AMSOIL.com or call (715) 399-8324 (TECH) (Monday-Friday, 8 a.m. - 5 p.m. Central Time) for application information.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
PK1	EA	1 kit	39.60	52.70
PK2	EA	1 kit	35.10	46.65
PK3	EA	1 kit	32.95	43.95

ATV/UTV Oil Change Kits for Can-Am* Vehicles

FITMENT INFO:

CK1: Maverick X3

CK2: Outlander 500-1000 • Renegade 500-1000 • Commander 800-1000 • Defender HD8 & HD10 • Maverick 800-1000 • Traxter HD8 & HD10

CK3: Defender HD5 • Outlander 400-450 • Traxter HD5

Contains everything needed to perform an oil change on most Can-Am UTVs and ATVs using AMSOIL Formula 4-Stroke® Powersports Synthetic Motor Oil. See AMSOIL.com or call (715) 399-8324 (TECH) (Monday-Friday, 8 a.m. - 5 p.m. Central Time) for application information.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
CK1	EA	1 kit	62.45	83.05
CK2	EA	1 kit	48.40	64.60
CK3	EA	1 kit	60.55	80.55

See p. 41 for Synthetic Chaincase & Gear Oil.

¹³ See page 47 for Proposition 65 information for this product.

TO ORDER: 1-800-777-7094 MONDAY – FRIDAY 7 A.M. – 7 P.M. • AMSOIL.COM

Free shipping on all orders of \$100 (\$130 CAN.) or more.

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



Synthetic Motorcycle Oil



STURGIS™

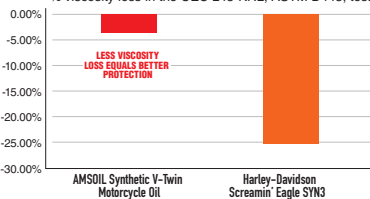


AMSOIL Resists Viscosity Breakdown

AMSOIL V-Twin Motorcycle Oil resists viscosity breakdown **6X better** than Harley-Davidson® SYN3* for **improved protection** against compensator and transmission gear wear.^{BB}

Viscosity Breakdown

% viscosity loss in the CEC L45-KRL, ASTM D445, test



**Based on testing of AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil purchased on 3/19/19 and Harley-Davidson Screamin' Eagle SYN3 purchased on 3/19/19 in the CEC L45-KRL, ASTM D445 test. *All trademarked names and images are the property of their respective owners and may be registered marks in some countries. No affiliation or endorsement claim, express or implied, is made by their use.



Synthetic V-Twin Motorcycle Oil

● 20W-50

Superior synthetic formulation provides long service life and maximum protection against engine wear in Harley-Davidson*, Buell* and other motorcycle engines, primaries and transmissions.

Use in bikes that require API SG, SL/CF, CG-4 • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MCVQT	EA	1 Quart	12.89	16.99
MCVQT	CA	12 Quarts	146.25	192.45
MCV1G	EA	1 Gallon	50.79	66.69
MCV1G	CA	4 Gallons	192.50	252.60

● SAE 60

Superior synthetic formulation provides long service life and maximum protection against engine wear in big-bore, air-cooled motorcycle engines, including Harley-Davidson Panhead, Shovelhead and Knucklehead.

Use in bikes that require API SG, SL/CF, GL-1 • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MCSQT	EA	1 Quart	14.29	18.39
MCSQT	CA	12 Quarts	162.55	208.30

● 20W-40

Superior synthetic formulation provides long service life and maximum protection against engine wear in Indian* and Victory* motorcycles.

Use in bikes that require API SM • JASO MA • ILSAC GF-4

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MVIQT	EA	1 Quart	12.79	16.89
MVIQT	CA	12 Quarts	145.50	191.80

● 15W-60

Superior synthetic formulation provides long service life and maximum protection against engine wear in Indian and Victory motorcycles.

Use in bikes that require API SM • JASO MA • ILSAC GF-4

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MSVQT	EA	1 Quart	14.79	19.39
MSVQT	CA	12 Quarts	167.25	219.70

● Synthetic V-Twin Transmission Fluid

Helps quiet V-twin transmission noise and enable smooth shifts.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MVTQT	EA	1 Quart	15.09	19.69
MVTQT	CA	12 Quarts	171.75	223.45

● Synthetic V-Twin Primary Fluid

Delivers consistent clutch feel and helps riders easily find neutral.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MVPQT	EA	1 Quart	12.69	16.49
MVPQT	CA	12 Quarts	144.40	186.75

Motorcycle Octane Boost²¹

Increases octane up to three numbers for maximum power and efficiency in motorcycles.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MOBCN	EA	(1) 4-oz. Bottle	4.79	6.49
MOBCN	CA	(12) 4-oz. Bottles	54.15	73.45

V-Twin Oil Change Kits

FITMENT INFO:

HDCK, HDBK: most 1999-2016 Harley-Davidson* motorcycles (HDCK includes chrome filter; HDBK includes black filter).

HDMC, HDMB: most 2017-present Harley-Davidson motorcycles (HDMC includes chrome filter; HDMB includes black filter).

Contains everything needed to perform an oil change on most Harley-Davidson motorcycles, including 20W-50 Synthetic V-Twin Motorcycle Oil, AMSOIL Motorcycle Oil Filter and O-ring.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
HDCK	EA	1 kit	68.85	91.05
HDBK	EA	1 kit	65.20	86.65
HDMC	EA	1 kit	81.15	107.70
HDMB	EA	1 kit	77.80	103.35

Synthetic Metric Motorcycle Oil

● 10W-40

Superior synthetic formulation provides long service life, smooth shifts and maximum protection against engine wear in Can-Am*, Honda*, Yamaha*, Kawasaki*, Triumph*, Suzuki*, BMW* and other motorcycle engines.

Use in bikes that require API SM, SG, SL, CF • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MCFQT	EA	1 Quart	12.89	16.89
MCFQT	CA	12 Quarts	145.70	191.20
MCF1G	EA	1 Gallon	50.59	65.69
MCF1G	CA	4 Gallons	191.70	248.80

● 10W-30

Superior synthetic formulation provides long service life, smooth shifts and maximum protection against engine wear in Honda, Yamaha, Suzuki and Kawasaki motorcycles.

Use in bikes that require API SH, SG, CF • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MCTQT	EA	1 Quart	13.09	17.39
MCTQT	CA	12 Quarts	148.45	196.90

● 15W-50

Superior synthetic formulation provides long service life, smooth shifts and maximum protection against engine wear in Ducati*, BMW, KTM*, Yamaha, Triumph and Royal Enfield* motorcycles.

Use in bikes that require API SM • JASO MA/MA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
MFFQT	EA	1 Quart	14.49	19.39
MFFQT	CA	12 Quarts	164.80	220.30

Motorcycle Oil Filters

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

See AMSOIL.com or call (715) 399-8324 (TECH) (Monday-Friday, 8 a.m. - 5 p.m. Central Time) for application information.

²¹See page 47 for Proposition 65 information for this product.

Synthetic Dirt Bike Oil



DB40



DB50



DB60



DBTF



STL



STM



Synthetic Dirt Bike Oil

Delivers confident clutch feel, maximum horsepower and superior wear protection in all types of four-stroke dirt bikes.

10W-40

Use in bikes that require JASO MA • API SG, SJ, SH, SL

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DB40QT	EA	1 Quart	12.69	16.69
DB40QT	CA	12 Quarts	143.60	189.30

10W-50

Use in bikes that require JASO MA • API SG, SJ, SH, SL

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DB50QT	EA	1 Quart	14.19	18.69
DB50QT	CA	12 Quarts	161.15	212.70

10W-60

Use in bikes that require JASO MA • API SG, SJ, SH, SL

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DB60QT	EA	1 Quart	14.69	19.39
DB60QT	CA	12 Quarts	167.00	219.70

Synthetic Dirt Bike Transmission Fluid

Use in two-stroke dirt bike transmissions and the Honda CRF

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
DBTFQT	EA	1 Quart	11.29	15.09
DBTFQT	CA	12 Quarts	128.10	170.95

Shock Therapy® Suspension Fluid

Controls friction, heat, wear, foaming and scuffing in suspension components.

Shock Therapy Suspension Fluid¹³

Lightweight #5

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
STLQT	EA	1 Quart	15.09	19.49
STLQT	CA	12 Quarts	171.65	220.95

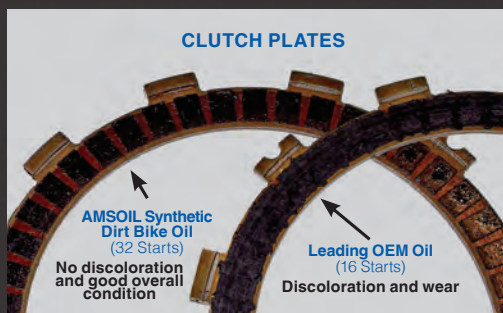
Shock Therapy Suspension Fluid¹³

Medium #10

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
STMQT	EA	1 Quart	15.19	19.59
STMQT	CA	12 Quarts	172.20	222.20

AMSOIL delivers confident clutch feel.

AMSOIL provides excellent clutch protection. How good is it? In extreme simulated-start testing, AMSOIL Dirt Bike Oil provided superior wear protection and kept clutch plates looking new.



¹³Based on dyno testing of a Honda CRF450 dirt bike using AMSOIL 10W-40 Synthetic Dirt Bike Oil and a leading original equipment manufacturer 10W-40 conventional dirt bike oil.

“Love AMSOIL products. Something I can count on always working even when racing is unpredictable.”

— CAJO
Alpine, Utah

¹³See page 47 for Proposition 65 information for this product.

Synthetic 4-Stroke Oil



● Formula 4-Stroke® Powersports Synthetic Motor Oil

Specially formulated for four-stroke recreational motors, including ATVs and snowmobiles.

Use in ATVs and snowmobiles that require API SG, SJ, SL/CF • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AFFQT	EA	1 Quart	13.29	17.49
AFFQT	CA	12 Quarts	150.80	198.80

Synthetic Small-Engine Oil

Helps preserve engine power, reduce oil consumption and reduce maintenance in small engines used in severe service.

Use in equipment that requires API SL, SJ, SH, SG • API CF, CD • JASO MA/MA2

○ 5W-30

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AESQT	EA	1 Quart	9.49	12.49
AESQT	CA	12 Quarts	107.15	141.80

● 10W-30

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ASEQT	EA	1 Quart	9.49	12.49
ASEQT	CA	12 Quarts	107.15	141.80
ASE1G	EA	1 Gallon	37.09	—
ASE1G	CA	4 Gallons	140.35	—

● 10W-40

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ASFQT	EA	1 Quart	9.99	13.79
ASFQT	CA	12 Quarts	113.60	156.40
ASF1G	EA	1 Gallon	39.29	—
ASF1G	CA	4 Gallons	148.90	—

● 15W-50

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
SEFQT	EA	1 Quart	8.99	11.79
SEFQT	CA	12 Quarts	101.30	133.60

● 20W-50 Zero-Turn Synthetic Hydrostatic Transmission Fluid¹³

Fights wear to deliver smooth control and responsive power in zero-turn hydrostatic mowers.

Use in hydrostatic transmissions that require 15W-50 or 20W-50 oil recommended for API SM, SL, SJ, SH or SG.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AHFQT	EA	1 Quart	11.99	16.39
AHFQT	CA	12 Quarts	135.45	185.50
AHF1G	EA	1 Gallon	46.99	—
AHF1G	CA	4 Gallons	178.10	—

● Formula 4-Stroke® Synthetic Scooter Oil¹³

Formulated specifically to meet the special needs of today's high-tech air- and water-cooled four-stroke motorized scooters.

Use in scooters that require API SG, SL/CF • JASO MA/MA2 • ISO-L-EMA2

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ASOQT	EA	1 Quart	10.89
ASOQT	CA	12 Quarts	123.55

● Semi-Synthetic Bar and Chain Oil¹⁷

Delivers excellent lubrication and protection, helping extend the life of bar and chain applications.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ABCQT	EA	1 Quart	6.59	8.69
ABCQT	CA	12 Quarts	74.10	98.75
ABC1G	EA	1 Gallon	25.59	—
ABC1G	CA	4 Gallons	96.70	—



Commercial-Grade Synthetic Oil for Small Engines

AMSOIL Synthetic Small-Engine Oil provides excellent all-season protection and performance in a large variety of small engines:

- Zero-Turn Mowers
- Riding and Push Lawnmowers
- Snowblowers
- Generators
- Pumps
- Welders
- Skid-Steers
- Compressors
- And More

^{13,17} See page 47 for Proposition 65 information for this product.

TO ORDER: 1-800-777-7094 MONDAY – FRIDAY 7 A.M. – 7 P.M. • AMSOIL.COM

Free shipping on all orders of \$100 (\$130 CAN.) or more.

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



Synthetic 2-Stroke Oil



SABER Professional Fights Carbon

Equipment using SABER Professional was 96% carbon-free^N.



Leading OEM oil after 300 hours



AMSOIL SABER Professional after 300 hours

^NBased on spark-arrestor testing.



Runs On Freedom™ Limited Snowmobile Warranty

Use AMSOIL INTERCEPTOR® Synthetic 2-Stroke Oil exclusively in your current-model-year or newer sled and we'll cover engine repairs in the unlikely event of any engine breakdown for up to two years/5,000 miles/8,000 km.*

*To get details and register, visit AMSOIL.com/rofwarrenty.



AIO



● Synthetic 2-Stroke Injector Oil¹³

High-quality, cost-effective oil for the severe operating conditions of two-stroke snowmobiles and outboard motors. Ideal for vintage sleds.

Use in snowmobiles and boat motors that require TC-W3 • API TC

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AIOQT	EA	1 Quart	9.79	12.89
AIOQT	CA	12 Quarts	110.65	146.25
AIO1G	EA	1 Gallon	38.49	49.89
AIO1G	CA	4 Gallons	145.85	189.10

AIT



● INTERCEPTOR® Synthetic 2-Stroke Oil¹³

Purpose-built, best-in-class performance for piston protection, cold-temperature pumpability and exhaust power valve cleanliness. Use in snowmobiles, including those made by Ski-Doo®, Polaris® and Arctic Cat®.

Use in snowmobiles that require API TC

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AITQT	EA	1 Quart	12.39	16.39
AITQT	CA	12 Quarts	140.80	185.50
AIT1G	EA	1 Gallon	48.89	63.19
AIT1G	CA	4 Gallons	185.20	239.50

TDR



● DOMINATOR® Synthetic 2-Stroke Racing Oil¹³

Delivers outstanding wear protection in high-horsepower and modified racing applications, including snowmobiles, motorcycles, ATVs, personal watercraft, go-carts and outboard motors.

Use in snowmobiles that require API TC

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
TDRQT	EA	1 Quart	13.39	17.59
TDRQT	CA	12 Quarts	151.30	199.40
TDR1G	EA	1 Gallon	52.59	67.79
TDR1G	CA	4 Gallons	199.20	257.00

ATP



● SABER® Professional Synthetic 2-Stroke Oil¹³

Provides superior protection for handheld two-stroke equipment at any mix ratio up to 100:1, offering the ultimate in convenience.

Use in power equipment that requires ISO-L-EGD • API TC • JASO FD

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ATPPK	EA	(1) 1.5-oz. Pillow Pack	1.39	-
ATPPK	CA	(48) 1.5-oz. Pillow Packs	59.95	-
ATPTS	EA	(1) 2.6-oz. Bottle	2.29	-
ATPTS	CA	(12) 2.6-oz. Bottles	25.20	-
ATPBA	EA	(1) 3.5-oz. Bottle	2.49	-
ATPBA	CA	(12) 3.5-oz. Bottles	27.85	-
ATPSF	EA	(1) 6.4-oz. Bottle	3.89	5.49
ATPSF	CA	(12) 6.4-oz. Bottles	44.35	61.45
ATPBC	EA	(1) 8-oz. Bottle	4.79	6.09
ATPBC	CA	(12) 8-oz. Bottles	54.35	68.40
ATPTE	EA	(1) 12.8-oz. Bottle	7.49	-
ATPTE	CA	(12) 12.8-oz. Bottles	84.80	-
ATPQT	EA	1 Quart	13.29	16.89
ATPQT	CA	12 Quarts	150.15	191.20
ATP1G	EA	1 Gallon	52.19	-
ATP1G	CA	4 Gallons	197.65	-

TCC



○ Synthetic Chaincase & Gear Oil

Superior protection for enclosed chains and gears found in snowmobiles, ATVs, UTVs and general equipment.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
TCCCN	EA	(1) 16-oz. Bottle	10.59	13.89
TCCCN	CA	(6) 16-oz. Bottles	60.05	78.85

¹³See page 47 for Proposition 65 information for this product.

Synthetic Marine Oil



"Switched my marine big block over to AMSOIL 25W-40 and have seen better oil pressure and increased performance over 30W oil. I'll definitely use this oil again."

— Runky
Portsmouth, RI



Synthetic Marine Engine Oil

Formulated specifically for use in four-stroke gasoline-fueled engines used in marine applications.

10W-30¹³

Use in boat motors that require API SM • NMMA FC-W Catalyst Compatible (Registration #FC-00833T) • JASO MA

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
WCTQT	EA	1 Quart	11.39	14.99
WCTQT	CA	12 Quarts	128.90	170.30

10W-40¹³

Use in boat motors that require API SM • NMMA FC-W Catalyst Compatible (Registration #FC-00850T) • JASO MA

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
WCFQT	EA	1 Quart	12.39	16.39
WCFQT	CA	12 Quarts	140.05	185.50

25W-40 (Synthetic Blend)²³

Use in boat motors that require API SM • NMMA FC-W Catalyst Compatible (Registration #FC-11825T) • JASO MA

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
WCMQT	EA	1 Quart	9.59	12.99
WCMQT	CA	12 Quarts	109.10	147.50

HP Marine® Synthetic 2-Stroke Oil¹³

Prevents piston skirt scuffing, cylinder bore scuffing and ring sticking in all two-stroke outboard motors, personal watercraft and anywhere NMMA TC-W3 and API-TC oils are specified.

Use in boat motors that require TC-W3

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
HPMQT	EA	1 Quart	10.69	13.99
HPMQT	CA	12 Quarts	120.75	158.90
HPM1G	EA	1 Gallon	41.89	53.89
HPM1G	CA	4 Gallons	158.50	204.25

Outboard 100:1 Pre-Mix Synthetic 2-Stroke Oil¹³

Contains a heavy dose of low-temperature dispersant additives that excel at reducing varnish and carbon deposit formation in water-cooled outboard motors.

Use in boat motors that require TC-W3

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ATQBC	EA	(1) 8-oz. Bottle	5.09
ATQBC	CA	(12) 8-oz. Bottles	57.50
ATOQT	EA	1 Quart	14.79
ATOQT	CA	12 Quarts	168.05

Universal Synthetic Marine Gear Lube

Resists foam and retains extreme-pressure qualities in outboard lower units, stern drives, V-drives, bow and tunnel thrusters and marine transmissions. Delivers advanced outboard protection against power loss and gear wear, even with up to 15 percent water contamination.^Y Choose the easy-pack for fast, easy installation.

Use in applications that require GL-5, GL-4

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AGMTB	EA	(1) 10-oz. Tube	7.39	9.69
AGMTB	CA	(6) 10-oz. Tubes	41.55	54.80
AGMQT	EA	1 Quart	13.39	17.69
AGMQT	CA	12 Quarts	152.40	201.30
AGMPK	EA	1 Quart Easy-Pack	15.09	19.99
AGMPK	CA	12 Quart Easy-Packs	171.65	226.65

Marine Gear Lube Pump²⁷

Specifically designed to ease installation and reduce mess when servicing lower units. Eliminate the need for a pump, save money and reduce the mess by choosing the easy-pack.

STOCK#	U.S. P.C.	CAN. P.C.
G3456	10.10	13.40

^{13,23,27} See page 47 for Proposition 65 information for this product.

^Y Based upon AMSOIL testing of AMSOIL Synthetic Marine Gear Lube 75W-90 in ASTM 3233 and ASTM D892.

Cleaners and Protectants



Protection and Dependability
for Generations



Chain Lube

Provides outstanding protection against wear and corrosion. Helps extend chain life. Does not attract dirt and does not fling off. Fast-drying.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ACL4SC	EA	(1) 4.5-oz. Spray Can	6.19
ACL4SC	CA	(12) 4.5-oz. Spray Cans	69.55
ACLSC	EA	(1) 11-oz. Spray Can	10.99
ACLSC	CA	(6) 11-oz. Spray Cans	62.10

Engine Fogging Oil

Helps prevent corrosion and dry starts to internal engine components found in outboard motors, lawn and garden equipment, motorcycles, snowmobiles, ATVs, motor homes and generators during storage or long periods of inactivity.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
FOGSC	EA	(1) 12-oz. Aerosol Can	9.29
FOGSC	CA	(6) 12-oz. Aerosol Cans	52.75

Power Foam®

Improves starting and performance by cleaning dirty intake systems and spark plugs; freeing sticky valves and removing gum, varnish and carbon deposits.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
APFSC	EA	(1) 18-oz. Spray Can	9.29
APFSC	CA	(12) 18-oz. Spray Cans	105.75

Heavy-Duty Degreaser

Formulated with powerful and fast-acting solvents, attacking petroleum-based grime on a molecular level to loosen its hold on metal, concrete and other surfaces.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ADGSC	EA	(1) 15-oz. Spray Can	12.29
ADGSC	CA	(12) 15-oz. Spray Cans	139.05

Silicone Spray²⁶

Perfect for lubricating or protecting rubber, nylon, plastics, upholstery, vinyl, wood, cardboard or fiberglass. Also excellent for waterproofing leather products. Hundreds of household uses.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ALSSP	EA	(1) 10-oz. Spray Can	8.49
ALSSP	CA	(12) 10-oz. Spray Cans	95.75

²⁶See page 47 for Proposition 65 information for this product.



Mudslugger®

Provides a protective layer of armor against the accumulation of mud, dirt and snow on ATVs, UTVs and dirt bikes, easing clean-up. Restores color and luster.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
AMSSC	EA	(1) 12-oz. Spray Can	9.49
AMSSC	CA	(12) 12-oz. Spray Cans	107.35

Engine Degreaser

Effectively cleans engine surfaces by cutting through grease, oil and grime.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
AEDSC	EA	(1) 15-oz. Spray Can	7.69
AEDSC	CA	(12) 15-oz. Spray Cans	87.55

Glass Cleaner

Cuts through grease and grime faster than other leading glass cleaners, stays where you spray it and leaves no streaks.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
AGCSC	EA	(1) 19-oz. Spray Can	4.39
AGCSC	CA	(12) 19-oz. Spray Cans	49.65

Metal Protector¹³

Displaces water, lubricates, penetrates and protects metal surfaces from corrosion, including hinges, squeaky mechanical objects, electrical systems and more.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AMP4SC	EA	(1) 4-oz. Spray Can	5.09	—
AMP4SC	CA	(12) 4-oz. Spray Cans	56.90	—
AMPSC	EA	(1) 8.75-oz. Spray Can	6.59	8.49
AMPSC	CA	(12) 8.75-oz. Spray Cans	74.95	95.60

Heavy-Duty Metal Protector¹³

Penetrates and adheres to metal surfaces, leaving a long-lasting coating that protects against the damaging effects of salt, moisture or chemical corrosion.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
AMHSC	EA	(1) 15-oz. Spray Can	11.29
AMHSC	CA	(12) 15-oz. Spray Cans	127.95



Engine and Transmission Flush

Helps restore operating efficiency, increase fuel economy and reduce emissions in gasoline and diesel engines and automatic transmissions.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
FLSHCN	EA	(1) 16-oz. Bottle	11.29	14.69
FLSHCN	CA	(12) 16-oz. Bottles	128.05	167.15

Miracle Wash® Waterless Wash & Wax

Unique dry car wash and polish delivers outstanding performance and quick, easy and economical spray application. No water required.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
AMWSC	EA	(1) 13-oz. Spray Can	9.69
AMWSC	CA	(12) 13-oz. Spray Cans	109.50

Synthetic Firearm Lubricant and Protectant

Effectively lubricates and protects firearms, helping extend life and prevent blockage, jams and wear. Outstanding protection and performance in both hot and cold climates. Specifically formulated for firearms, offering superior performance over multi-purpose products.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
FLPBA	EA	(1) 4-oz. Bottle	8.99	12.09
FLPBA	CA	(12) 4-oz. Bottles	101.75	137.40
FLPSC	EA	(1) 5-oz. Spray Can	10.79	—
FLPSC	CA	(12) 5-oz. Spray Cans	121.85	—

Firearm Cleaner and Protectant

Penetrates deep into hard-to-reach components, effectively cleaning fouling and powder residue from all firearm surfaces, safely protecting them for storage, reducing jamming and increasing reliability. Protects against corrosion, allowing for safe storage and preserving performance, reliability and value.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
FCPSC	EA	(1) 5-oz. Spray Can	6.29
FCPSC	CA	(12) 5-oz. Spray Cans	70.60
FCPCN	EA	(1) 8-oz. Bottle	10.19
FCPCN	CA	(12) 8-oz. Bottles	114.95

¹³See page 47 for Proposition 65 information for this product.



● Heavy-Duty Antifreeze & Coolant²⁹

Provides superior heat transfer and excellent protection against corrosion, cylinder-liner cavitation, freezing and boilover. Protection up to 1,000,000 miles, 20,000 hours or 8 years, whichever comes first. Pre-mixed formula.

Use in applications requiring any of the following specifications:

ASTM D3306, D6210, D7583, D7820 • TMC RP329B, TMC RP338 • AS/NZS 2108:2004 Type A
Suitable for use with the following: Case New Holland • Cummins 14603 • Cummins 3666132 • DDC 7SE 298, 93K217 • Freightliner 48-22880 • GM Heavy Truck • International Truck and Engine / Navistar CEMS B-1 Type III-A • JIS K2234 • MAN 324 NF • MB DBL 7700 • MTU MTL 5048 • Kenworth R026-170-97 • Mack 014GS17004, 014GS17009 • PACCAR CS0185 • DAF MAT 74002 • Peterbilt 8502.002 • Scania TB1451 • Volvo Heavy Truck

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ANTHD1G	EA	1 Gallon	20.59
ANTHD1G	CA	4 Gallons	77.90

○ Propylene Glycol Antifreeze & Coolant

Combines the benefits of biodegradability, low toxicity and all-climate protection for up to 150,000 miles (241,400 km) or 5 years, whichever comes first, in passenger cars and light trucks. Protection up to 1,000,000 miles (1,609,344 km), 20,000 hours or 8 years, whichever comes first, in heavy-duty applications. Concentrated formula.

Use in applications requiring any of the following specifications:

ASTM D3306, D6210, D7583, D7820 • TMC RP329B, TMC RP338 • AS/NZS 2108:2004 Type A
Suitable for use with the following: Case New Holland • Cummins 14603 • Cummins 3666132 • DDC 7SE 298, 93K217 • Freightliner 48-22880 • GM Heavy Truck • International Truck and Engine / Navistar CEMS B-1 Type III-A • JIS K2234 • MAN 324 NF • MB DBL 7700 • MTU MTL 5048 • Kenworth R026-170-97 • Mack 014GS17004, 014GS17009 • PACCAR CS0185 • DAF MAT 74002 • Peterbilt 8502.002 • Scania TB1451 • Volvo Heavy Truck

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
ANT1G	EA	1 Gallon	44.99	59.09
ANT1G	CA	4 Gallons	170.50	223.90

● Passenger Car/Light Truck Antifreeze & Coolant²⁹

Engineered to exceed original equipment manufacturer (OEM) requirements for up to 150,000 miles or 5 years, whichever comes first, in passenger cars and light trucks. Pre-mixed formula.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
ANTPC1G	EA	1 Gallon	19.29
ANTPC1G	CA	4 Gallons	73.05

Fluid Extraction Pump

STOCK#	U.S. P.C.	CAN. P.C.
G2576	15.75	21.00

Aids in the removal of old fluids when servicing vehicles.



^{29, 15, 13} See page 47 for Proposition 65 information for this product.



Powersports Antifreeze & Coolant¹⁵

Advanced design helps control operating temperature in hot-running, high-revving powersports applications. Extended-life formula provides all-season protection for up to five years.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
PSAFQT	EA	1 Quart	7.59	10.19
PSAFQT	CA	12 Quarts	85.50	115.25

DOMINATOR® Coolant Boost

Helps reduce engine temperatures, increase horsepower, promote faster engine warm-up times and reduce radiator and engine corrosion in racing and passenger vehicles.

Warm up your car 54% faster. See the Coolant Boost product page at AMSOIL.com for details.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
RDCBCN	EA	(1) 16-oz. Bottle	11.49	15.49
RDCBCN	CA	(6) 16-oz. Bottles	65.00	87.70

○ Synthetic Air Tool Oil

Effectively lubricates rotary and piston-type air-tool bearings and motors, while managing moisture and conditioning rubber and plastic seals and O-rings.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
AIRBA	EA	(1) 4-oz. Bottle	3.99	5.49
AIRBA	CA	(12) 4-oz. Bottles	45.45	62.05

Multi-Vehicle Synthetic Power Steering Fluid¹³

Provides excellent wear protection, long component life and quiet operation in most passenger cars and light trucks.

Use in applications that require American Motor Corporation C 4124; 4634 • BMW 82 11 0 148 132; 83 29 0 429 576; 81 22 1 468 879 & 82 11 1 468 041 • Chrysler MS-1872; MS-5931, MS-9602 & MS-11655 • Ford M2C138-CJ; ESW-M2C128-C&D; M2C195-A; M2C204-A & M2C33-F • GM/Saginaw PSF 9985010; 9985835; 89021184 & 1050017 • Hyundai/Kia PSF-3; PSF-4 & PSF 00232-19017 • Mercedes Benz 236.3; 345.0; 001 989 24 03 10; 001 989 24 03 12 & Q 1 32 0001 • Mitsubishi Diamond SP III & PS Fluid • Navistar TMS 6810 • Nissan PSF-II • Porsche 000 043 206 56 • Saab 93160548; (45) 30 09 800 & 30 32 380 • Subaru KO209A0080 • Toyota PSF Type EH; P/N 008886-01 • Volvo 1161529 & 30741424 • VW/Audi TL-52146; G002000; G 004 000 M2; G 004 000 M7 & G 004 000 M8

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
PSFCN	EA	(1) 16-oz. Bottle	8.39	10.79
PSFCN	CA	(12) 16-oz. Bottles	94.70	122.20



DOT 3 & 4 Synthetic Brake Fluid³³

High-performance brake fluid specially designed as a multi-use product for passenger-car, light-truck and powersports applications.

Use in equipment requiring a DOT 3, 4 or 5.1 brake fluid.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
BFLVCN	EA	(1) 12-oz. Bottle	6.69
BFLVCN	CA	(12) 12-oz. Bottles	75.95

DOMINATOR® DOT 4 Synthetic Racing Brake Fluid¹⁰

High boiling point brake fluid engineered to resist brake fade and vapor lock during intense racing applications.

Use in racing equipment requiring a DOT 4 brake fluid.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
BFRCN	EA	(1) 12-oz. Bottle	12.49
BFRCN	CA	(12) 12-oz. Bottles	141.25

Brake & Parts Cleaner³²

Professional-strength parts cleaner that quickly removes oil, grease, brake fluid and other contaminants from brake parts and other automotive components.

STOCK#	UNITS	PKG./SIZE	U.S. P.C.
BPCSC	EA	(1) 19-oz. Spray Can	5.19
BPCSC	CA	(12) 19-oz. Spray Cans	58.65

Synthetic Compressor Oil

Superior protection for rotary screw, rotary vane, reciprocating and other compressor applications.

● Synthetic Compressor Oil¹³

Use in compressors that require ISO 46 • SAE 20

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
PCIQT	EA	1 Quart	13.99	17.69
PCIQT	CA	12 Quarts	158.25	200.70

● Synthetic Compressor Oil

Use in compressors that require ISO 100 • SAE 30/40

STOCK#	UNITS	PKG./SIZE	U.S. P.C.	CAN. P.C.
PCKQT	EA	1 Quart	14.29	18.09
PCKQT	CA	12 Quarts	161.95	205.75

^{33,10,32,13} See page 47 for Proposition 65 information for this product.

CALIFORNIA PROPOSITION 65 WARNING STATEMENTS

- 10 ⚠ WARNING:** This product can expose you to 2,2'-Iminodiethanol, which is known to the State of California to cause cancer, and Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 13 ⚠ WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 15 ⚠ WARNING:** This product can expose you to Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
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- 18 ⚠ WARNING:** This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 19 ⚠ WARNING:** This product can expose you to Naphthalene, which is known to the State of California to cause cancer, and Methanol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 21 ⚠ WARNING:** This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
- 23 ⚠ WARNING:** This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 25 ⚠ WARNING:** This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer, and Methanol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 26 ⚠ WARNING:** This product can expose you to n-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 27 ⚠ WARNING:** This product can expose you to Di(2-ethylhexyl)phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 28 ⚠ WARNING:** This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 29 ⚠ WARNING:** This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 31 ⚠ WARNING:** This product can expose you to Benzene and Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 32 ⚠ WARNING:** This product can expose you to Tetrachloroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
- 33 ⚠ WARNING:** This product can expose you to Diethanolamine, which is known to the State of California to cause cancer, and 2-Methoxyethanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 35 ⚠ WARNING:** This product can expose you to chemicals including Crystalline Quartz Silica, Naphthalene and Ethylbenzene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
- 36 ⚠ WARNING:** This product can expose you to chemicals including Crystalline Quartz Silica and Naphthalene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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