



"The First in Synthetics"®

PRODUCT TIPS

Thank You

Thank you for purchasing AMSOIL products. AMSOIL takes pride in offering the finest lubricants, filtration systems, fuel additives and other automotive products available.

AMSOIL WARRANTY STATEMENT

See G-1363 for complete AMSOIL Warranty Statements.

MOTOR OILS

AMSOIL synthetic and synthetic blend motor oils meet warranty requirements for all domestic and import vehicles.

AMSOIL motor oils may be mixed with conventional oils.

For optimal performance when converting high-mileage cars to AMSOIL motor oils, first clean the engine with AMSOIL Engine Flush to remove sludge and deposits left by other oils.

See page four for AMSOIL Recommended Drain Intervals. Please note that extending drain intervals does not void new car warranties.

Reminder: Check oil level only after engine has cooled and the oil has returned to the oil pan.

TWO-CYCLE OILS

100:1 Synthetic 2-Cycle Oil: For use in gasoline-fueled two-cycle engines.

Mix ratios: Mix one 1.5-oz. pillow pack oil to 1 gal. gasoline.

Mix one 8-oz. bottle to 6 gal. gasoline.

AMSOIL Synthetic 2-Cycle Injector Oil:

For use in gasoline-fueled two-cycle engines. *Mix ratio:* Mix at engine manufacturer's recommended ratio.

Series 2000 2-Cycle Racing Oil: For use in gasoline-fueled two-cycle engines.

Mix ratio: Mix 2½ oz. to 1 gal. gasoline.

OIL FILTERS

AMSOIL Super Duty Oil Filter: For use in light duty and heavy duty gasoline-fueled and diesel-fueled automotive engines.

Change intervals: AMSOIL Super Duty Oil Filters must be changed every 6 months or 12,500 miles (whichever comes first) in gasoline engines, every 6 months or 7,000 miles (whichever comes first) in light duty diesel engines, and at engine manufacturer's recommended filter change intervals in heavy

duty diesel engines. AMSOIL Super Duty Oil Filters may also be changed in all applications according to the finding of oil analysis. Hastings Filters should be changed at normal change intervals.

AMSOIL BMK11 By-Pass Oil Filter:

For use in gasoline engines and diesel passenger car and light truck engines with crankcase capacities up to and including 6 U.S. quarts. May be used in larger sump capacity vehicles if filter change intervals are shortened.

Change intervals: Replace filter at 25,000-mile or 1-year intervals (whichever comes first) in gasoline engines and at 12,500-mile or 6-month intervals (whichever comes first) in passenger car and light truck diesel engines.

AIR FILTERS

AMSOIL Two-Stage Air Filter: For use in gasoline and diesel passenger car and light-duty to medium-duty truck engines.

Maintenance intervals: Wash, dry and oil Two Stage Air Filter (using AMSOIL Foam Filter Oil) at 1-year or 25,000-mile intervals (whichever comes first). Service filter more frequently if conditions expose engine to excessive dust.

GASOLINE FUEL ADDITIVES

AMSOIL Performance Improver: For use in gasoline engines. Not for use in diesel engines.

For one-time cleanup treatment: Add 6 oz. of AMSOIL Performance Improver to 10 gal. gasoline.

For maintenance treatments: AMSOIL Performance Improver may be added to the tank every time the vehicle is filled, or may be added on a periodic basis. Add 1 oz. per 10 gal. gasoline or use 1 Quick Shot per 10 gal. gasoline.

May be used with reformulated and oxygenated gasoline.

AMSOIL Performance Improver is alcohol-free.

AMSOIL P.I. Quick Shot: May be used in the applications in which AMSOIL Performance Improver may be used to provide maintenance treatment of fuel system. Add one 6 oz. bottle per 10 gallons of gasoline.

AMSOIL Octane Boost: For use in gasoline engines. Not for use in diesel engines. Increases gasoline octane up to seven points.

For most applications, add one 12-ounce bottle of Octane Boost to 15 gallons of gasoline. For racing applica-

tions demanding very high octane, add two 12-ounce bottles to every 15 gallons of gasoline. Octane Boost may be used with AMSOIL Performance Improver or AMSOIL P.I. Quick Shot. Each product should be added separately to the vehicle fuel tank. Do not premix Octane Boost and Performance Improver or P.I. Quick Shot. Octane Boost is available in the U.S. only.

AMSOIL Gasoline Stabilizer: For use in gasoline and diesel engines. Add 1 oz. to every 2.5 gal. fuel.

DIESEL FUEL ADDITIVES

AMSOIL Diesel Fuel Modifier: For use in light-duty to medium-duty diesel two-cycle or four-cycle engines. Not for use in gasoline engines.

For regular treatment: Mix 2 oz. AMSOIL Diesel Fuel Modifier with 5 gal. diesel fuel.

For treatment of low quality fuel: Mix 3 to 4 oz. AMSOIL Diesel Fuel Modifier with 5 gal. diesel fuel.

May be used with high or low sulfur diesel fuel and with No.1 or No. 2 diesel fuel.

May be used with AMSOIL Cetane Boost. However, AMSOIL Diesel Fuel Modifier and AMSOIL Cetane Boost should not be premixed. Mix the products only in diesel fuel.

AMSOIL Diesel Fuel Modifier is alcohol-free.

AMSOIL Diesel Fuel Additive

Concentrate: For use in medium- to heavy-duty two-cycle or four-cycle diesel engines. Not for use in gasoline engines or light-duty diesel engines.

Treatment: Mix 16 oz. AMSOIL Diesel Fuel Additive Concentrate with 100 gal. diesel fuel. Problem fuels or fuels to be used at very low temperatures may be treated at 50 gals. fuel to 16 oz. AMSOIL Diesel Fuel Additive Concentrate.

May be used with high or low sulfur diesel fuel and with No.1 or No. 2 diesel fuel.

May be used with AMSOIL Cetane Boost. However, AMSOIL Diesel Fuel Additive Concentrate and AMSOIL Cetane Boost should not be premixed. Mix the products only in diesel fuel.

AMSOIL Diesel Fuel Additive Concentrate is alcohol-free.

AMSOIL Cetane Boost: For use in light-, medium- and heavy-duty diesel two-cycle and four-cycle engines. Not for use in gasoline engines.

Treatment: Mix 16 oz. AMSOIL Cetane Boost with 100 gal. diesel fuel for maximum cetane number increase (three to seven numbers). May also be used at a treat rate of 16 oz. AMSOIL Cetane Boost to 200 gal. diesel fuel.

May be used with high or low sulfur diesel fuel and with No.1 or No. 2 diesel fuel.

May be used with AMSOIL Diesel Fuel Modifier or AMSOIL Diesel Fuel Additive Concentrate. However, AMSOIL Cetane Boost and AMSOIL Diesel Fuel Modifier, or AMSOIL Cetane Boost and AMSOIL Diesel Fuel Additive Concentrate, should not be premixed. Mix the products only in diesel fuel.

AMSOIL Cetane Boost is alcohol-free.

DRIVETRAIN FLUIDS

AMSOIL Synthetic Automatic

Transmission Fluid: For use in automatic transmissions and other components specifying use of a General Motors DEXRON III, Ford MERCON, MERCON V or Chrysler ATF +3 or +4 automatic transmission fluid.

Service Life: In sound equipment, AMSOIL Synthetic Automatic Transmission Fluid may be used up to three times as long as the drain intervals recommended in vehicle owner's manuals.

AMSOIL Synthetic Gear Lubes:

For use in differentials and other components specifying use of an API GL 2 through 5 or API MT-1 gear lube.

Service Life: In sound equipment, AMSOIL synthetic gear lubes are fill-for-life lubricants. Under severe service conditions, AMSOIL synthetic gear lubes should be replaced at five times the intervals recommended in the owner's manual.

AMSOIL Synthetic SAE 80W-90 Gear Lube, GL-4: For use in outboard and sterndrive lower units. Not for use in automotive applications or other applications requiring API GL-5 gear lubes.

ANTIFREEZE/COOLANT

AMSOIL Propylene Glycol

Antifreeze and Coolant: For use in gasoline four-cycle engines and light-,

medium- and heavy-duty diesel two-cycle or four-cycle engines.

Mix Ratio: Use AMSOIL Propylene Glycol Antifreeze and Coolant/water at a 70/30 mix ratio for optimum protection between -60° and 230° F.

Compatibility: Do not mix AMSOIL Propylene Glycol Antifreeze and Coolant with other antifreeze/coolant products. While a mixture of propylene glycol and ethylene glycol will not harm engines, antifreeze additive formulations may be incompatible, sometimes leading to the loss of corrosion protection.

Freeze/Boil Testing: Because it is propylene glycol based, AMSOIL Propylene Glycol Antifreeze and Coolant may not be accurately tested for freeze/boil protection using conventional hydrometers or other devices made for measuring the freeze/boil protection of ethylene glycol products.

Use the AMSOIL Antifreeze Test Strip provided with your purchase of AMSOIL Propylene Glycol Antifreeze and Coolant or other propylene glycol test strips to measure freeze/boil or corrosion protection of AMSOIL Propylene Glycol Antifreeze and Coolant/water solutions.

You may order the G-1165 Antifreeze Test Strip (6/package) by calling 1-800-956-5695.

GREASES

AMSOIL Synthetic Lithium Complex

Greases: For use in components requiring the use of NLGI GC-LB No. 1-1/2 (AMSOIL Water Resistant Grease only) or No. 2 grease. Choose Multi-Purpose, Multi-Purpose Spray, Heavy-Duty, Water Resistant or Racing Grease according to the recommendations of the component manufacturer.

Compatibility: Lithium complex greases are compatible with other greases, except clay, barium and polyurea greases. If replacing a clay, barium or polyurea grease with an AMSOIL lithium complex grease, clean the component thoroughly before installing the AMSOIL product. Follow component manufacturer's grease recommendations.

AMSOIL Synthetic Fifth Wheel Grease and Open Gear Compound:

For use on tractor trailer vehicle fifth wheels, open gears, wire ropes,

chains, flexible couplings, sliding surfaces of drag lines and shovels, construction equipment, dredging equipment or any other application where a heavy, tenacious lubricant is required.

AMSOIL Synthetic Fifth Wheel Grease and Open Gear Compound is packaged as an aerosol spray product. Clean the spray nozzle after each use to ensure ongoing product dispensability.

METAL PROTECTOR

AMSOIL Heavy Duty Metal Protector:

For use as a rust and corrosion preventive on all metal surfaces. Also works well as an undercoat.

AMSOIL Heavy Duty Metal Protector is packaged as an aerosol spray product. Clean the spray nozzle after each use to ensure ongoing product dispensability.

ENGINE CLEANERS

AMSOIL Engine Flush:

For use in gasoline four-cycle and diesel two-cycle and four-cycle engines except those having wet clutch.

Caution: Do not drive vehicle with AMSOIL Engine Flush in the crankcase. Before driving vehicle, drain crankcase and fill with new AMSOIL Synthetic Motor Oil.

Directions for Use: See container.

AMSOIL Power Foam: For use in gasoline two-cycle and four-cycle engines. Not for use in diesel engines. Safe for catalytic converter and emission control equipped gasoline engines.

Caution: Do not spray on painted surfaces.

Directions for Use: See container.

DISCLAIMER

Product usage information contained herein is based on vehicle, component or equipment manufacturers' guidelines and was accurate at the time of publication.

Always follow the product, performance, viscosity, volume, size and other recommendations and specifications of the vehicle, component or equipment manufacturer.

For more product information, call AMSOIL Technical Services, 715-392-7101.

AMSOIL Synthetic Motor Oil Recommended Drain Intervals

Product / Application	Series 2000 20W-50 Synth. Racing Oil API SH, SJ, CF (TRO)	Series 2000 0W-30 Synth. Oil API SH, SJ, CF ILSAC GF-1, -2 (TSO)	Series 3000 5W-30 Hvy Dty Diesel Oil API CF, CF-2, CG-4, SH, SJ, ILSAC GF-2 (HDD)	5W-30 (ASL) 10W-30 (ATM) Synth. Oil API SH, SJ, CF, ILSAC GF-1, GF-2	10W-40 (AMF) 20W-50 (AMV) Synth. Motorcycle Oil API SJ, SH, SG, SF, CH-4, CG-4, CF-2, CF, CD (AMO)	10W-40 Synth. Oil API SJ, SH, SG, SF, CH-4, CG-4, CF-2, CF, CD (PMO)	10W-40 Synth. Blend Oil API SH, SJ, CF, ILSAC GF-1, -2 (PMO)	20W-50 Synth. Oil API SJ, SH, SG, SF, CH-4, CG-4, CF-2, CF, CD (ARO)	XL 7500 5W-30 (XLF) 10W-30 (XLT) Synth. Oil API SH, SJ, CF, ILSAC GF-1, -2	SAE 30 Synth. Diesel Oil API CF, CF-2, SH, SJ (ACD)	15W-40 Synth. Blend Oil Diesel Oil API CF, CF-2, CG-4, SH, SJ (PCO)	15W-40 Synth. Marine Oil API CF, CF-2, CG-4, SH, SJ (AME)
Personal Passenger Vehicles w. Gasoline Engines	Up to 4 times longer or 1 year	Up to 35,000 miles or 1 year	Up to 25,000 miles or 1 year	Up to 25,000 miles or 1 year	N/A	Up to 25,000 miles or 1 year	Up to 2 times longer or 1 year	Up to 3 times longer or 1 year	Up to 7,500 miles or 6 months	Up to 3 times longer or 1 year	Up to 2 times longer or 1 year	Up to 3 times longer or 1 year
Turbocharged Gasoline Engines	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	N/A	Up to 3 times longer or 6 months	UMR	Up to 2 times longer or 6 months	Up to 7,500 miles or 6 months	Up to 2 times longer or 6 months	UMR	Up to 2 times longer or 6 months
High Performance and Racing Engines	Oil Changes Specified by Experience/Oil Analysis											
Light-Duty And Non-Turbocharged Diesel Engines	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months	N/A	Up to 2 times or longer w. oil analysis or 6 months	UMR	Up to 2 times or longer w. oil analysis or 6 months	Up to 7,500 miles or 6 months	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months
Heavy-Duty and Turbocharged Diesel Engines	N/A	N/A	Up to 2 times or longer w. oil analysis or 6 months	N/A	N/A	Up to 2 times or longer w. oil analysis or 6 months	N/A	Up to 2 times or longer w. oil analysis or 6 months	N/A	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months	Up to 2 times or longer w. oil analysis or 6 months
Motorcycles, ATVs, etc.	UMR	UMR	Up to 2 times longer or 1 year	UMR	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	UMR	Up to 3 times longer or 1 year	UMR	UMR	UMR	UMR
Marine Craft and Occasionally Used Gasoline Engines	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	Up to 3 times longer or 1 year	UMR	Up to 3 times longer or 1 year	Up to 7,500 miles or 6 months	Up to 3 times longer or 1 year	UMR	Up to 3 times longer or 1 year
Gasoline Fleet Vehicles and Industrial Engines	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	N/A	Up to 3 times longer or 6 months	UMR	Up to 3 times longer or 6 months	Up to 7,500 miles or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months	Up to 3 times longer or 6 months

1. UMR means use equipment manufacturer's recommended drain interval. N/A means the oil may not be used in the application.
2. Where AMSOIL recommends up to 2, 3 or 4 times longer, it means up to 2, 3 or 4 times the equipment manufacturer's recommendation. Change the lubricant at the time or distance interval indicated, *whichever comes first*.
3. Oils specifically designed for an application are shown in shaded boxes.
4. Blocks not shaded indicate oils that are not specifically formulated for these applications and are therefore the oil of second choice. Their performance in the application would still be superior to a similar viscosity conventional oil.
5. Oils shown in boxes marked "N/A" should not be considered due to viscosity or performance requirements.
6. All drain intervals can be extended (with analysis) indefinitely by using AMSOIL By-Pass Oil Filtration and an AMSOIL Oil-Wetted Foam Air Filter.
7. All AMSOIL lubricants are warranted by AMSOIL INC. (see AMSOIL Product Warranty G-1363.)
8. Oil Analyzers Inc. offers oil analysis services for all engine and component applications. Consult your price list for more information. For non-commercial passenger car oil analysis, the Trigard Protection Plan (ATG-01) is also available.
9. AMSOIL SDF Oil Filters must be changed at least every 6 months regardless of miles driven. Replace other brands of oil filters at the engine manufacturer's recommended filter change interval.

Extending motor oil drain intervals does not void new vehicle warranties. To affect vehicle warranty, the oil must be directly responsible for the engine failure. If the oil didn't cause the problem, the warranty cannot be voided, regardless of brand or length of time in use.