

## AMSOIL Filter-Change Recommendations

### Oil Filters

- **EA0:** Always change filter at time of oil change; up to 25,000 miles (40,200 km) or one year, whichever comes first, when used in conjunction with AMSOIL synthetic motor oil in normal service, or 15,000 miles (24,100 km) or one year, whichever comes first, in severe service.

- **EA15K:** Always change filter at time of oil change; up to 15,000 miles (24,100 km) or one year, whichever comes first, when used in conjunction with AMSOIL synthetic motor oil in normal and severe service.

- **EAHD:** Always change filter at time of oil change; up to 60,000 miles (96,600 km) or one year, whichever comes first, when used in conjunction with AMSOIL synthetic motor oil in normal and severe service.

- **EAOM:** Always change filter at time of oil change when used in conjunction with AMSOIL synthetic motor oil in normal and severe service.

- **WIX, MANN, Donaldson and other aftermarket filters:** Always change filter at time of oil change. Up to 12,000 miles (19,300 km) or one year, whichever comes first, when used in conjunction with AMSOIL XL Synthetic Motor Oil or AMSOIL Signature Series Synthetic Motor Oil. In all other cases, follow OEM\*\* recommendations.

***Note:** When using AMSOIL extended-drain synthetic oils with an OEM\*\* or aftermarket oil filter from outside the AMSOIL product offering, change filter at OEM\*\* recommendation.*

### Air Filters

- **WIX, MANN and Donaldson:** OEM\*\* recommendations or restriction gauge.

## AMSOIL Antifreeze/Coolant Change Recommendations

**Passenger Car/Light Truck Antifreeze & Coolant (ANTPC):** Use in passenger cars and light trucks for up to 150,000 miles or 5 years, whichever comes first.

**Heavy-Duty Antifreeze & Coolant (ANTHD):** Use in heavy-duty and off-road applications for up to 1,000,000 miles, 20,000 hours or 8 years, whichever comes first.

***Note:** Heavy-Duty Antifreeze & Coolant can be used in non-heavy-duty applications, but with a drain interval of 150,000 miles or five years, whichever comes first.*

**Propylene Glycol Antifreeze & Coolant (ANT):** Use in passenger cars and light trucks for up to 150,000 miles (240,000 km) or 5 years, whichever comes first. Use in heavy-duty and off-road applications for up to 1,000,000 miles (1,610,000 km), 20,000 hours or 8 years, whichever comes first.

**Powersports Coolant (PSAF):** Use in all powersports applications that require an ethylene-glycol 50/50 premix engine coolant, including on- or off-road motorcycles, UTVs, ATVs, snowmobiles, outboard motors and personal watercraft, for up to five years.

## AMSOIL Drivetrain Applications and Service Intervals

### Automatic Transmission Fluid Recommendations

**Signature Series Multi-Vehicle Synthetic Automatic Transmission Fluid (ATF) and Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid (ATL):** Use in most domestic and foreign automotive and light-truck automatic transmissions. Follow the vehicle manufacturer's normal-service drain interval in normal service or double the vehicle manufacturer's severe-service drain interval in severe service. Not for use with belt- or chain-type CVT transmissions or Ford\* Type F applications.

**OE Multi-Vehicle Synthetic Automatic Transmission Fluid (OTF) and OE Fuel-Efficient Synthetic Automatic Transmission Fluid (OTL):** Use in most domestic and foreign automotive and light-truck automatic transmissions. Follow the vehicle manufacturer's drain interval recommendations. Not for use with belt- or chain-type CVT transmissions or Ford Type F applications.

**Torque-Drive® Synthetic Heavy-Duty Automatic Transmission Fluid (ATD):** Recommended by AMSOIL for use in most heavy-duty automatic transmissions manufactured by Allison,\* Voith,\* ZF\* and other heavy-duty transmissions. Intervals may be extended with used oil analysis. Not for use with CVT transmissions.

**Super Shift® Synthetic Racing Transmission Fluid (ART):** Use in most racing and high-performance applications where no-slip clutch performance is desired. No set drain interval recommendation is made. Not for use with CVT transmissions.

*As defined by the OEM. Where absent, severe service should be defined as excessive engine idling; continuous stop-and-go city driving; frequent towing, plowing and hauling; and driving in dusty conditions.*

**Synthetic CVT Fluid (CVT):** Use in most domestic and foreign automotive and light truck belt- and chain-type continuously variable transmissions (CVTs). Follow the vehicle manufacturer's drain interval recommendations.

**Synthetic DCT Fluid (DCT):** Use in most domestic and foreign automotive and light truck dual clutch transmissions (DCTs). Follow the vehicle manufacturer's drain interval recommendations.

### AMSOIL Manual Transmission Oil Recommendations

**SAE 50 Long-Life Synthetic Transmission Oil (FTF):** Use in manual transmissions found in high-torque, heavy-duty line-haul trucks and other commercial applications requiring an SAE 50 lubricant. Follow OEM drain intervals up to 500,000 miles (804,700 km) or five years.

**Synthetic Manual Transmission & Transaxle Gear Lube (MTG):** Use in synchronized manual transmissions and transaxles that require 75W-85, 75W-90 or 80W-90 API GL-4 extreme-pressure gear lube, and replaces GM\* part #12346190 and Chrysler\* part #4874459. Excellent for muscle car transmissions and Gear Vendors\* gear splitters, among many other applications. Under normal operating conditions Synthetic Manual Transmission & Transaxle Gear Lube will last two times longer than conventional petroleum GL-4 gear oils. Where the OEM\*\* recommends synthetic oil, follow that drain interval (such as NV 4500). See G2077 for further details.

**Synthetic Manual Synchromesh Transmission Fluid (MTF):** Use in automotive and light-truck applications that use a highly friction-modified synchromesh transmission fluid. Transmissions and transaxles include some models of New Venture,\* Tremec,\* Land Rover,\* MG,\* Mini Cooper\* and Honda.\* Synthetic Manual Synchromesh Transmission Fluid is a direct replacement for GM and Chrysler synchromesh fluids. Recommended for 50,000-mile (80,500-km) service intervals or longer (up to 150,000 miles [240,000 km]) as indicated in the owner's manual.

\*\* Original equipment manufacturer

### AMSOIL Powersports Transmission Oil Recommendations

**AMSOIL Synthetic V-Twin Transmission Fluid (MVT):** Use in Harley-Davidson,\* Triumph\* and pre-2013 INDIAN\* bikes for up to 20,000 miles (32,200 km) or one year, whichever comes first.

**AMSOIL Synthetic ATV/UTV Transmission & Differential Fluid (AUDT):** Use in ATV and UTV transmissions and differentials, including those made by Polaris,\* Honda,\* Yamaha,\* Kawasaki,\* Can-Am\* and Suzuki.\* Follow the original equipment manufacturer's oil change recommendation.

**AMSOIL Synthetic ATV/UTV Powertrain Fluid (AUPPT):** Use in Polaris\* RANGER,\* RZR,\* GENERAL\* and Sportsman\* transmission/differentials, front drives and hubs calling for Polaris Demand Drive Fluid\* or Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid.\* Also for use in ATVs & UTVs that require wet-brake-compatible fluid, including those made by Kawasaki,\* Yamaha\* and Argo.\* Do not use in applications requiring API GL-5 fluid. Follow the original equipment manufacturer's oil change recommendation.

**AMSOIL Synthetic Dirt Bike Transmission Fluid (DBTF):** Use in two- and four-stroke dirt bikes that use a separate sump, including those made by Honda,\* Yamaha,\* Kawasaki,\* Suzuki,\* Husqvarna\* and KTM.\* Follow the original equipment manufacturer's oil change recommendation.

### AMSOIL Differential Gear Lube Recommendations

- **Synthetic ATV/UTV Transmission & Differential Fluid (AUDT)**

Follow the original equipment manufacturer's oil change recommendation.

- **SEVERE GEAR® Synthetic Extreme-Pressure (EP) Lubricants 75W-90 (SVG), 75W-110 (SVT), 75W-140 (SVO) & 80W-90 (AGL)**

- **Long Life Synthetic Gear Lube 75W-90 (FGR) & 80W-140 (FGO)**

Consult the owner's manual or the original equipment manufacturer (OEM) to establish normal or severe service.

Product	Cars, SUVs, Light Trucks (normal service)	Cars, SUVs, Light Trucks (severe service)	Heavy-Duty Class 8 Line Haul	Vocational/Delivery	Heavy-Duty Off-Road
SVG SVT SVO AGL	Drain at 100,000 miles (160,900 km) of service or according to the owner's manual, whichever is longer.	Drain at 50,000 miles (80,500 km) of service or according to the owner's manual, whichever is longer.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 250,000 miles (402,300 km) or three years, whichever comes first.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 120,000 miles (193,100 km) or three years, whichever comes first.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 100,000 miles (160,900 km) or two years, whichever comes first.
FGR FGO	Drain at 100,000 miles (160,900 km) of service or according to the owner's manual, whichever is longer.	Drain at 50,000 miles (80,500 km) of service or according to the owner's manual, whichever is longer.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 500,000 miles (804,700 km) or five years, whichever comes first.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 180,000 miles (289,700 km) or three years, whichever comes first.	Follow the OEM** drain interval (miles or hours) for synthetic oil up to 100,000 miles (160,900 km) or two years, whichever comes first.

- For non-differential service such as MT-1 manual transmission applications, consult owner's manual or the OEM\*\* for the synthetic-oil service interval. Where no **synthetic-oil** service interval exists, drain at twice the interval for petroleum oil.

- Gear oils should be changed more frequently when operating in dusty or dirty conditions unless the gear system is sealed or equipped with membrane-type breathers.

- AMSOIL does not support extended drain intervals where water contamination occurs. Check and service the gear oil frequently when water contamination is possible.



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# Product Recommendation and Drain Interval Chart

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\*\*OEM – original equipment manufacturer



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Referral # \_\_\_\_\_

# AMSOIL Synthetic Motor Oil Maximum Recommended Drain Intervals

	<b>A</b>	<b>B</b>
<b>RECOMMENDATIONS ARE FOR WHICHEVER COMES FIRST, MILEAGE OR TIME.</b>	<b>Personal vehicles with gasoline-fueled engines</b>	<b>Personal light-truck vehicles with diesel-fueled engines</b>
<b>Normal:</b> Up to 25,000 miles, (40,200 km) 700 hours of operation or 1 year	ASL, ATM, ASM, AZO, ALM, AMR, AZF	
<b>Severe:</b> Up to 15,000 miles, (24,100 km) 700 hours of operation or 1 year		
<b>Normal &amp; Severe:</b> Up to 2X OEM** recommendations for conventional petroleum oil, not to exceed 15,000 miles (24,100 km) or 1 year		
<b>Normal &amp; Severe:</b> Extended intervals based on oil analysis or use the longest drain recommendation of the OEM**	OEM, OEF, OES, OET, OEZ	ADP, <sup>6</sup> ADO, <sup>6</sup> ADN, <sup>6</sup> DCO, <sup>2,6</sup> DP530, <sup>6</sup> DP020 <sup>6</sup>
<b>Normal &amp; Severe:</b> Up to 12,000 miles (19,300 km)/one year or longer based on vehicle OEM** recommendations	XLM, XLF, XLT, XLO, XLZ	
<b>Normal &amp; Severe:</b> 3X OEM** recommendations, not to exceed 50,000 miles (80,500 km)/600 hours or 1 year		AME <sup>4,5,6</sup>
<b>Normal &amp; Severe:</b> 3X OEM** recommendations, not to exceed 60,000 miles (96,600 km)/600 hours or 1 year		
<b>Normal &amp; Severe:</b> 2X OEM** recommendations, not to exceed 25,000 miles (40,200 km) or one year, which ever comes first		DEO, <sup>6</sup> DME, <sup>6</sup> DHD, <sup>6</sup> DZF, <sup>6</sup> DTT <sup>6</sup>
<p>*All trademarked names 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.</p> <p>**OEM – original equipment manufacturer</p> <p><b>Note:</b> AMSOIL recommends checking oil frequently to maintain proper fill levels and maximum engine protection.</p> <p><b>Vehicles that must follow OEM** drain intervals:</b> 1. Mazda* RENESIS with rotary engine; 2. Subaru* vehicles equipped with turbochargers; 3. GM* vehicles equipped with HFV6 engines; 4. Vehicles using biodiesel greater than 10% (B10) or E85 fuels.</p>		

<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>European automobiles with gasoline or diesel engines</b>	<b>Street rods and vehicles with high-performance and racing engines</b>	<b>Four-stroke motorcycle engines</b>	<b>Four-stroke scooter engines</b>	<b>Four-stroke ATV/UTV engines</b>
		MCF, MCV, MCT, MCS, MVI, MSV, MFF (on-road use)		
AFE, AFL, AEL, EFM, EFO, EZT	ZRT, <sup>2</sup> ZRF, <sup>2</sup> ZRD, <sup>2</sup> RD20, <sup>2</sup> RD30, <sup>2</sup> RD50, <sup>2</sup> RD60, <sup>2</sup> DCO <sup>2</sup>	DB40, DB50, DB60 (off-road use)	ASO	AUV30, AUV40, AUV50, AUV54, AFF

**Application Guidelines:** 1 – Formulated to maximize fuel efficiency. 2 – Consider application and viscosity needs. Where engines are modified, the vehicle owner assumes responsibility for oil change intervals. 3 – Product has excellent performance and is a secondary recommendation. 4 – Drain intervals may be extended beyond AMSOIL recommendations in accordance with oil analysis or OEM\*\* recommendations. 5 – Normal and severe service are defined by the OEM.\*\* Refer to owner's manual. 6 – Extended drain intervals are not recommended for performance-modified engines, when using biofuels containing more than 10% ethanol or 15% biodiesel (B15) or for 2007-2009 Caterpillar\* C13 and C15 on-highway engines. Extend drain intervals beyond OEM\*\* recommendations in these instances only with oil analysis. **Note:** 2007-2010 Dodge,\* Ford\* and GM\* turbodiesel pickups are also not recommended for extended drain intervals when using DHD.

<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>
<b>Four-stroke snowmobile engines</b>	<b>Four-stroke marine craft with gasoline-fueled engines</b>	<b>Four-stroke gasoline- or diesel-fueled small/compact engines</b>	<b>Commercial or fleet vehicles and motorhomes with gasoline engines</b>	<b>Heavy-duty on-/off-road applications, fleet, marine and motorhomes with diesel engines</b>
			ASL, ATM, AZO, AMO, ARO, ASM, ALM	AMO, <sup>4</sup> ARO <sup>4</sup>
	WCT, WCF, WCM, AME (Inboards & I/O)		AME, <sup>4,5</sup> DEO, <sup>1,4,5</sup> DME, <sup>4,5</sup> DHD, DZF, DTT <sup>4,5</sup>	
AFF	WCT, WCF (outboards & personal watercraft)	ASF, AES, ASE, AMO, SEF	OEM, OEF, OET, OEZ	ADP, ADO, ADN, DCO
			XLM, XLF, XLT, XLO, XLZ	
				AME <sup>4,5</sup>
				DEO, DME, DHD, DZF, DTT
<p><b>All intervals are for “mechanically sound” equipment defined as:</b> Engines that are in good working condition and do not, for example, leak or consume excessive amounts of oil, are not worn out, do not overheat, do not leak antifreeze and have properly working emissions-control systems. AMSOIL recommends repairing malfunctioning engines prior to installation of AMSOIL synthetic motor oil.</p>				

## Application Description and Examples

- A Personal vehicles with gasoline-fueled engines:** Personal passenger cars, pick-up trucks, SUVs and vans, both turbo and non-turbo-charged
- B Personal light-truck vehicles with diesel-fueled engines:** Personal pickup trucks, SUVs and vans, both turbo and non-turbocharged
- C European Automobiles:** Audi,\* BMW,\* Mercedes-Benz,\* Volkswagen,\* Mini-Cooper,\* Opel,\* Porsche,\* GM and Renault,\* etc., both gasoline and diesel
- D High-Performance and Racing Engines:** Street rods, muscle cars, race cars, 4x4 off-road, sled pull, diesel performance and modified street/track vehicles
- E Four-Stroke Motorcycle Engines:** All American, Japanese and most European motorcycles including street, sport, touring and off-road bikes
- F Four-Stroke, Two-Wheeled Scooter Engines:** All American, Japanese, European and Chinese scooters, both air- and water-cooled
- G Four-Stroke ATV and Snowmobile Engines:** Arctic Cat,\* Bombardier\*/Ski-Doo\*/Can-Am,\* Honda,\* Kawasaki,\* Polaris,\* Suzuki,\* Yamaha,\* etc.
- H Four-Stroke Marine Craft w/Gasoline-Fueled Engines:** Honda, Mercury,\* Yamaha, Johnson\*/Evinrude,\* Bombardier/BRP,\* Suzuki, Nissan,\* Tohatsu,\* OMC,\* Volvo Penta,\* Mercruiser,\* Chevrolet,\* Ford, Chrysler Marine,\* Crusader,\* Marine Power,\* etc.
- I Four-Stroke Gasoline-Fueled or Diesel-Fueled Small & Compact Engines:** Garden, lawn and utility tractors, lawn mowers, generators, light towers, pumps, welders and other compact four-stroke gasoline-fueled engines
- J Commercial, fleet and motorhomes with gasoline engines:** All fleet, delivery, municipal and emergency vehicles; school and charter buses (any vehicle or equipment used for non-personal use) as well as RVs/motorhomes
- K Heavy-duty on-/off-road applications, marine and motorhomes with diesel engines:** Over-the-road trucks; all fleet, delivery, municipal and emergency vehicles; school & charter buses; off-road equipment; compact diesel engines and diesel-powered marine craft as well as RVs/motorhomes

- Normal Service** – Personal vehicles frequently traveling greater than 10 miles (16 km) at a time and not operating under severe service.
- Gasoline Engine Severe Service** – Commercial or fleet vehicles; excessive idling; daily short-trip driving (less than 10 miles [16 km]); frequent towing, hauling, plowing or driving in dusty conditions.
- Diesel Engine Severe Service** – Extensive engine idling, daily short-trip driving (less than 10 miles [16 km]) or driving in dusty conditions.
- Modifications and Alterations** – Engines operating under modified conditions (non-stock) are excluded from extended drain recommendations. Examples include the use of performance ECM tuning; non-OEM\*\* approved exhaust, fuel or air induction systems and the use of fuels other than those recommended for normal operation by the manufacturer.
- Oil filtration** – Extended oil drain intervals are based on the user following AMSOIL-recommended filter service intervals. See oil-filter recommendation on next panel.

## Product Key

- Signature Series Synthetic Motor Oil**
  - ASM 0W-20 • ALM 5W-20 • AZO 0W-30
  - ASL 5W-30 • ATM 10W-30 • AZF 0W-40
  - AMR 5W-50
- XL Synthetic Motor Oil**
  - XLZ 0W-20 • XLM 5W-20 • XLF 5W-30
  - XLT 10W-30 • XLO 10W-40
- OE Synthetic Motor Oil**
  - OES 0W-16 • OEZ 0W-20 • OEM 5W-20
  - OEF 5W-30 • OET 10W-30
- Z-ROD® Synthetic Motor Oil**
  - ZRT 10W-30 • ZRF 20W-50
- Premium Protection Synthetic Motor Oil**
  - AMO 10W-40 • ARO 20W-50
- DOMINATOR® Synthetic Racing Oil**
  - RD20 5W-20 • RD30 10W-30
  - RD50 15W-50 • RD60 SAE 60
  - DCO 20W-50
- Synthetic European Motor Oil**
  - AFE 0W-20 • EZT 0W-20 • EFO 0W-40
  - AEL 5W-30 • AFL 5W-40 • EFM 5W-40
- Formula 4-Stroke® Powersports 0W-40 Synthetic Motor Oil**
  - AFF 0W-40
- Synthetic Marine Engine Oil**
  - WCT 10W-30 • WCF 10W-40
  - WCM 25W-40 (Synthetic Blend)
- Synthetic Small-Engine Oil**
  - AES 5W-30 • ASE 10W-30 • ASF 10W-40
- Formula 4-Stroke® 10W-40 Synthetic Scooter Oil**
  - ASO 10W-40
- Synthetic V-Twin Motorcycle Oil**
  - MVI 20W-40 • MCV 20W-50
  - MSV 15W-60 • MCS SAE 60
- Synthetic Metric Motorcycle Oil**
  - MCT 10W-30 • MCF 10W-40
  - MFF 15W-50
- Synthetic Dirt Bike Oil**
  - DB40 10W-40 • DB50 10W-50
  - DB60 10W-60

- Synthetic ATV/UTV Motor Oil**
  - AUV30 10W-30 • AUV40 10W-40
  - AUV50 5W-50 • AUV54 5W-40
- Signature Series Max-Duty Synthetic Diesel Oil**
  - DHD 5W-30 • DZF 0W-40
  - DEO 5W-40 • DTT 10W-30
  - DME 15W-40
- Heavy-Duty Synthetic Diesel Oil**
  - ADO 5W-40 • ADN 10W-30
  - ADP 15W-40
- CI-4+ Synthetic Diesel Oil**
  - AME 15W-40
- 100% Synthetic Diesel Oil**
  - DP020 0W-20 • DP530 5W-30