



*The First in Synthetics*®

## Long Life Synthetic Gear Lubes

**75W-90 (FGR) & 80W-140 (FGO)**

**Specifically Engineered  
for 500,000-Mile Service Life in  
Over-The-Road Trucks.**

### *Product Description*

AMSOIL Long Life Synthetic Gear Lubes are extended-drain gear lubes engineered specifically to last several times longer and protect gears better than all conventional gear oils. These exclusive AMSOIL formulations of premium synthetic base oils and high-performance additives resist acid, carbon and varnish formation from oxidative breakdown. Components run cleaner and last longer. AMSOIL Long Life Synthetic Gear Lubes are shear stable and friction reducing. They maintain their viscosity during extended service for maximum wear control and are fuel-efficient. The superior cold-temperature fluidity and high-temperature stability properties of AMSOIL Long Life Synthetic Gear Lubes make them excellent for all-season use. Equipment lasts longer and maintenance costs are reduced with AMSOIL Long Life Synthetic Gear Lubes.

### *Applications*

AMSOIL Long Life Synthetic Gear Lubes, in the correct viscosity grades, are recommended for all domestic and foreign applications such as over-the-road trucks, light, medium and heavy-duty trucks, off-road equipment, commercial vehicles, motor homes, autos, SUVs, emergency vehicles, buses, delivery/utility vehicles and tractors.



Use AMSOIL Extended Drain Synthetic Gear oils in differentials, manual transmissions or other gear applications where one or more of the following standards are specified: **API GL-5 & MT-1, MIL-PRF-2105E, Dana SHAES 234 (Formerly Eaton PS-037) for 250,000 miles, Dana SHAES 256 (Formerly Eaton PS-163) for 500,000 miles, Mack GO-J & GO-J+, Meritor 0-76N (75W-90) & 0-80 (80W-140), and Navistar TMS 6816 plus hypoid gear oil specifications** from all foreign and domestic manufacturers such as GM, Ford and Daimler Chrysler. Can also be used in rear axles where API Service GL-4 lubricant is recommended.

### *AMSOIL Long Life Synthetic Gear Lubes provide:*

- **High-Load Gear and Bearing Protection**
- **Reduced Operating Temperatures**
- **Rust and Corrosion Protection**
- **Better Cold-Weather Shifting**
- **Improved Efficiency**
- **Improved Seal Life**



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL LONG LIFE SYNTHETIC GEAR OILS 75W-90 & 80W-140

	<b>SAE 75W-90 (FGR)</b>	<b>SAE 80W-140 (FGO)</b>
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	16.6	26.4
Kinematic Viscosity @ 40°C, cst (ASTM D-445)	129.7	257.6
Viscosity Index	137	133
Brookfield Viscosity, cP (150,000 Max)	98,300 @-40°C	59,926 @-26°C
Flash Point, °C (°F) (ASTM D-92) 150°C Min.	214 (417)	218 (424)
Pour Point, °C (°F) (ASTM D-97)	-51(-67)	-40(-40)
Copper Corrosion (ASTM D-130) 1b Max @ 121 °C (250°F) / 3hr	1b	1b
Falex Procedure B (ASTM D-3233) (failure load, lbf.)	2000	2000
Foam Stability (ASTM D-892) (20/50/20 maximum)	0/0/0	0/0/0

For product service life in differentials, consult your owner's manual or the Original Equipment Manufacturer (OEM) to establish the application, NORMAL or SEVERE.

Product/ Classification	Normal Service	Severe Service
<b>Cars, SUVs &amp; Light Trucks</b>	Drain at 100,000 miles of service or according to the owner's manual, whichever is longer	Drain at 50,000 miles of service or according to the owner's manual, whichever is longer
<b>Heavy-Duty Class 8 Line Haul</b>	Follow the OEM drain interval (miles or hours) for synthetic oil up to 500,000 miles or three years, whichever comes first. Otherwise, drain at twice the OEM interval for petroleum oil.	
<b>Heavy-Duty Off-Road Vocational</b>	Follow the OEM drain interval (miles or hours) for synthetic oil up to 120,000 miles or one year, whichever comes first. Otherwise, drain at twice the OEM interval for petroleum oil.	

For product service life in non-differential applications, consult owner's manual or the OEM for either normal or severe synthetic oil service intervals. Where service intervals are unavailable, drain at twice the interval for conventional oil.

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

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

**AMSOIL LONG LIFE SYNTHETIC GEAR LUBES** are compatible with conventional gear oils, however mixing oils reduces the benefits and nullifies the extended service life recommendations.

**AMSOIL LONG LIFE SYNTHETIC GEAR LUBES** are compatible with most limited-slip differentials. If limited-slip differential chatter occurs, add AMSOIL Slip-Lock™ friction modifier additive.

**AMSOIL LONG LIFE SYNTHETIC GEAR LUBE 75W-90** replaces competitors' 75W-90 and 80W-90 viscosity grades.

**AMSOIL LONG LIFE SYNTHETIC GEAR LUBE 80W-140** replaces competitors' 80W-140 and 85W-140 viscosity grades.

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

