

# *Pennzoil<sup>®</sup> Synthetic 75W-90 (GL-4) Long Service*

*Life, Wide Temperature Use Gear Oil*

## **TECHNICAL DATA SHEET**



PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4 combines a premium performance gear oil additive package with high quality synthetic base stocks. The result is a gear oil that provides excellent low temperature fluidity for safe lubrication during very low temperature transmission and transaxle startup, and also maintains a thick protective oil film during extremely hot operating conditions.

PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4 is formulated with all the performance additives necessary for outstanding protection of gears and bearings. It contains extreme pressure agents which protect against shock loading and wear. It is formulated to be compatible with copper containing alloys and soft metals found in synchronizers. Foam inhibitors protect against oil aeration and foam, which can rupture the lubricant film and cause wear due to lack of lubrication. Special rust inhibitors are incorporated into PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4 to protect against corrosion than can result from condensation. Oxidation inhibitors are included to further enhance this synthetic's inherent oxidation stability, resulting in a lubricant with exceptionally long service life and excellent resistance to deposit and sludge formation during high temperature operation.

PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4 meets all the requirements of API Service Classification GL-4

### **PERFORMANCE, FEATURES & BENEFITS**

- Maintains fluidity at low temperatures
- Does not thin out at high temperatures
- Long service life
- Prevents rust
- Resists oxidation
- Withstands heavy shock loads
- High viscosity index
- Compatible with copper containing alloys

### **MAIN APPLICATIONS**

PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4 is designed primarily for the lubrication of manual transmissions and transaxles requiring an API GL-4 lubricant.

It can be used in passenger cars, light trucks, sport utility vehicles, and vans. It continues to flow at very low temperatures, providing especially good protection of gears and bearings in extreme cold weather. It also provides excellent service in hot climates by not thinning at high temperatures, thereby maintaining a full film of protective lubricant on gear teeth. In hot running gear boxes, it allows longer service due to the excellent stability of the synthetic base stocks used in it. It can be used in applications that call for General Motors part number 12345371 gear oil.

Passenger car or truck manual transmissions experiencing difficult shifting during cold weather while using conventional mineral based GL-4 oils, will typically find easier shifting characteristics when using PENNZOIL<sup>®</sup> SYNTHETIC SAE 75W-90 GL-4.

# **Pennzoil® Synthetic 75W-90 (GL-4)** *Long Service Life, Wide Temperature Use Gear Oil*

## **SPECIFICATIONS, APPROVALS & RECOMMENDATIONS**

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

To find the right Pennzoil® product for your vehicles and equipment, please consult [www.pennzoil.com](http://www.pennzoil.com) to look up the right motor oil recommendation using our oil selector.

## **TYPICAL PHYSICAL CHARACTERISTICS**

<b>Properties</b>		<b>Method</b>	<b>PENNZOIL® SYNTHETIC SAE 75W-90 GL-4</b>
<b>Gravity</b>	°API	ASTM D287	31.2
<b>Specific Gravity</b>	@60°F	ASTM D1298	0.8698
<b>Pounds Per Gallon</b>			7.25
<b>Color</b>		ASTM D1500	1.0
<b>Flash Point</b>	°C(°F)	ASTM D92	229(445)
<b>Pour Point</b>	°C(°F)	ASTM D97	-42(-44)
<b>Kinematic Viscosity</b>	@40°C cSt	ASTM D445	108
<b>Kinematic Viscosity</b>	@100°C cSt	ASTM D445	15.3
<b>Kinematic Viscosity</b>	@100°F SUS	ASTM D445 & 2161	554
<b>Kinematic Viscosity</b>	@210°F SUS	ASTM D445 & 2161	80.7
<b>Viscosity Index</b>		ASTM D2270	149
<b>Brookfield Viscosity</b>	@-40°C cP	ASTM D2983	110 000
<b>Material Number</b>	33 Pound Pail		56075
<b>Material Number</b>	12/1 Quart		56076

These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

## **HEALTH, SAFETY & ENVIRONMENT**

### **Health and Safety**

PENNZOIL® SYNTHETIC SAE 75W-90 GL-4 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from [www.epc.shell.com](http://www.epc.shell.com)

### **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## **ADDITIONAL INFORMATION**

### **Advice**

Advice on applications not covered here may be obtained from your Shell Lubricants distributor representative or Shell Technical Help Desk.