

GEAR OIL SAE LS-90 GL-5

LIMITED SLIP AUTOMOTIVE DIFFERENTIAL AND GEAR OIL

Pennarol Limited Slip LS-90 gear Oil has been specifically formulated and manufactured from premium select base oils, premium extreme pressure additive and friction modifiers for limited slip differentials. LS90 is specifically designed to withstand high loads, temperatures and repeated shock-load conditions.

Performance Features

- Delivers superior wear protection in vehicles operating under severe stress and high temperatures.
- Shear stability to maintain fluid viscosity and film thickness under very high loads.
- Protects all metals normally found in gearboxes against corrosion and does not leave deposits on oil seals.
- Good shear stability to maintain fluid viscosity and film thickness under high to severe operating conditions.
- Low temperature characteristics to reduce cold start wear and deliver easy start up.
- Reduces stick slip 'Chatter' in low speed high torque operation.
- Good oxidation and thermal stability for longer oil service life.
- Reduces differential clutch chatter.

Applications

- Conventional designed differentials under high and extreme load
- 4WD, light trucks, light commercial vehicles, on and off highway
- Mack heavy-duty trucks and buses where API MT-1 classification is required
- Limited Slip differential and rear axle passenger cars where **API GL-5** or GL-6 is recommended
- Designed for cars and commercial vehicles fitted with limited slip differentials, tractor and construction equipment requiring a gear oil lubricant of SAE 90 viscosity. Ford and GM requirements for passenger car and SUV limited slip differential applications.
- LS90 can be used in hypoid and spiral bevel gears as a premium alternative were SAE 90 grade is required.

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Special Benefits

- Pennarol Limited Slip LS90 gear oil is formulated with **high viscosity base oils** incorporating **extreme pressure additives, corrosion inhibitors, high shear stable** and **friction modifier technology** that provide **wear protection** and **frictionless operation** in limited slip differentials whilst maintaining correct viscosity over extreme loads for the life of use.



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- Pennarol Limited Slip LS90 gear oil meets the severe requirements of API MT-1 suitable for use in non-synchronized manual transmissions and final drive axles in buses and heavy-duty trucks. By the inclusion of high viscosity base oils, superior protection against thermal degradation during high operating temperature are realized and; oil seal deterioration and component wear are eliminated.

Specifications

American Petroleum Institute API:	API GL-5 API GL-6 (Obsolete) API MT-1
Society Automotive Engineers BTR	J2360 BTR 5M-31
Ford Specifications:	ESW-FM2C-1006A, ESW-FM2C-1006B ESW-M2C-104A, ESW-M2C-105A ESW-M2C-119A, SM-2C-1013A
GM Claims	HN 1187, HN 1386, HN 1561
Mack Specifications	Mack GO-J
MB Claims	MB 235.0, MB 235.6
ZF Gear	TE-ML-05C, TE-ML-12C, TE-ML-16E
US Military:	MIL-L-2105 B, MIL-L-2105 C MIL-L-2105 D, MIL-PRF-2105E

*Check owners' manual before use

Typical Data

Test	Result
Viscosity @ 40°C	183.90cSt
Viscosity @ 100°C	17.63cSt
Viscosity Index	104
Specific Gravity	
Product Code / Pack size	2234. 05/20/205

Note: Pennarol LS-90 gear oil may be unsuitable for use in some transmissions, always consult owners' manual if in doubt

Storage

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C



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