

GROB Gear Oil SAE 50 GL-4

Product Description

GROB SAE 50 GL-4 is a high-performance, fully synthetic manual transmission lubricant designed to meet the most demanding requirements of modern heavy-duty transmissions. Engineered with advanced additive technology, it ensures maximum protection, exceptional thermal stability, and extended drain intervals for light to severe-duty on- and off-highway applications. This gear oil provides significant advantages over conventional sulphur-phosphorus gear oils, including superior high-temperature performance, oxidation resistance, wear protection, and corrosion control. Its high viscosity index delivers robust film strength at elevated temperatures, while maintaining excellent low-temperature fluidity for smooth operation even in freezing conditions.

Approvals & Specifications

Meets:

- API MT-1
- API GL-4
- API CF

Approvals :

- Caterpillar TO-4
- TMS-6816
- Allison TES 439
- Allison C-4
- Komatsu KES 07.868.1
- Mack TO-A Plus
- ZF TE-ML-03C

Typical Properties

Property	Method	Units	Value
Grade	-	SAE 50	-
Density @ 15.6°C	ASTM D4052	g/ml	0.86
Flash Point	ASTM D92	°C	221
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	17.5
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	132
Pour Point	ASTM D97	°C	-45
Viscosity Index	ASTM D2270	-	146

Application

- MAXGROB SAE 50 GL-4 is recommended for:
- Heavy-duty manual transmissions requiring extended service intervals.
- On-highway vehicles such as trucks, buses, and vans.
- Off-highway equipment in construction, mining, agriculture, and logging.
- Industrial torque converters and hydraulic systems requiring API GL-4 specifications.
- Note: Not suitable for hypoid gear applications in differentials and final drives requiring API GL-5 or MIL-PRF-2105E.

Product Features & Benefits

Superior Wear Protection:

- Extends transmission life and reduces operational costs.

Outstanding Oxidation Stability:

- Prolongs oil life and reduces sludge formation.

Exceptional Low-Temperature Fluidity:

- Ensures smooth shifts and quicker start-ups in cold conditions.

Extended Drain Intervals:

- Reduces downtime and maintenance costs.

Friction Optimization:

- Improves fuel economy and enhances performance.

Corrosion Control:

- Protects copper alloys and synchronizers, ensuring longer component life.

Shear Stability:

- Maintains viscosity and performance under severe operating conditions.



Health, Safety, & Environment

- Avoid prolonged or repeated skin contact. Wash thoroughly with soap and water if contact occurs.
- Dispose of used oil responsibly at authorized collection points.
- Refer to the Safety Data Sheet (SDS) for detailed health and safety information.

Storage & Handling

- Store in a cool, dry place away from direct sunlight and temperature extremes.
- Avoid storing above 60°C or in freezing conditions.
- Drums should be stored horizontally to prevent water ingress and label damage.

