

## GROB Gear Oil SAE 140 GL-5

### Product Description

**GROB SAE 140 GL-5** is a heavy-duty mineral gear oil developed to provide maximum protection in gear systems operating under extreme pressure conditions. It contains a robust Extreme Pressure (EP) additive package designed to prevent scoring, pitting, and wear in hypoid gears and other components under shock loading.

This product is ideal for:

- Older vehicles and off-road machinery requiring SAE 140
- High-load applications where thermal stability and wear resistance are critical
- Harsh climates and hot ambient conditions

### Product Features & Benefits

- **API GL-5 EP Protection:**  
Ensures durability under extreme loads and high-speed shock conditions.
- **High Viscosity Stability:**  
Provides a thick lubricating film to reduce metal-to-metal contact.
- **Thermal & Oxidation Stability:**  
Resists oil degradation and sludge formation in high-temperature gear systems.
- **Rust & Corrosion Protection:**  
Extends the life of metal surfaces exposed to humidity and water ingress.
- **Long Equipment Life:**  
Reduces gear wear, scoring, and pitting for prolonged component life.

### Typical Properties

Property	Method	Value
Appearance	Visual	Clear, dark amber
Density @ 15°C	ASTM D4052	0.900 g/cm <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D445	460 - 500 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D445	29.5 - 32.0 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	≥90
Pour Point	ASTM D97	-12°C
Flash Point (COC)	ASTM D92	≥245°C
Timken OK Load	ASTM D2782	≥60 lb
FZG Load Stage	DIN 51354	≥12
Copper Corrosion (3h @ 121°C)	ASTM D130	1b
Foaming (Seq I/II/III)	ASTM D892	Pass

### Application

- Suitable for heavily loaded axles and differentials requiring API GL-5
- Ideal for use in:
  - Manual transmissions of heavy-duty trucks
  - Construction, mining, and agricultural machinery
  - Hypoid gears operating under severe shock loads
- Not recommended for transmissions requiring GL-4 or where yellow metal compatibility is critical

### Approvals & Specifications

- API GL-5
- MIL-L-2105D
- ZF TE-ML 05A, 16D
- MAN 342 Typ M1
- MB 235.0

### Health, Safety, & Environment

- Avoid prolonged skin contact; wear appropriate protective equipment.
- Dispose of used oil responsibly at authorized collection points.
- Refer to the product's Safety Data Sheet (SDS) for detailed handling and safety instructions.

### Storage & Handling

- Store below 45°C in a dry, covered environment
- Keep containers tightly sealed to avoid contamination
- Avoid mixing with other gear oils unless compatible
- Refer to the SDS for detailed safety and handling information

