



Product Name: GITRÖL SAE 140 GL-5

Application: Oil for manual transmissions and differentials

API Service: GL-5

Viscosity Grade: SAE 140

Quality: Mineral

Recommended for: Automotive and transmission manufacturers for use in synchronized and non-synchronized manual transmissions, engines in construction equipment, agricultural machinery, tractor units and axle drives.

Drain Interval: up to 100,000 Km

Product Overview

GITRÖL 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.

Application

Formulated for use in **manual gearboxes, hypoid differentials, final drives**, and other heavily loaded gear systems operating under **extreme pressure and high torque**. **GITRÖL SAE 140 GL-5** is suitable for commercial vehicles, trucks, off-road equipment, and agricultural machinery that require a high-viscosity EP gear oil.

Performance 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.

Meets and Approvals

Meets:

- GL-5

OEM Recommendations:





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

Typical Properties

Property	Method	Typical Value
Appearance	Visual	Clear, dark amber
Density @ 15°C	ASTM D4052	0.900 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	460 – 500 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	29.5 – 32.0 mm ² /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

Storage and Handling

- Store in a cool, dry place away from direct sunlight and temperatures above 60°C.
- Ensure containers are sealed to prevent contamination.
- Avoid mixing with other oils to maintain full performance

