



Product Name: GITRÖL SAE 85W-140 GL-4

Application: Heavy duty manual gear oil

API Service: GL-4

Viscosity Grade: SAE 85W140

Quality: Mineral

Recommended for: For heavy-duty motor vehicle transmissions, particularly with Hypoid gearing for which an API GL 4 or lower with same viscosity grade is required

Drain Interval: up to 60,000 Km

Product Overview

GITRÖL SAE 85W140 GL-4 is a high-performance **mineral-based gear oil** engineered with balanced **Extreme Pressure (EP) and anti-wear additives**. It provides optimal gear protection while being gentle on **synchronizers**, making it ideal for transmissions requiring GL-4 lubricants.

The formulation ensures:

- Smooth gear shifts
- Protection against scuffing and wear
- Long oil and equipment life
- Compatibility with yellow metals such as brass and bronze used in manual transmission components

Application

Formulated for use in **manual gearboxes, synchromesh transmissions, and rear axles** where API GL-4 performance is required. Suitable for **commercial trucks, agricultural and construction equipment, and passenger vehicles** that do not require EP levels as high as GL-5. Designed for situations with **moderate to high loads and speeds**.

Performance Benefits

- **Balanced EP Protection**
Offers adequate gear load protection without being overly aggressive on synchronizers and soft metals.
- **Thermal & Oxidation Stability**
Prevents deposit formation and viscosity breakdown under high operating temperatures.
- **Excellent Wear Resistance**
Protects gears and bearings from pitting and scoring under load.
- **Corrosion & Rust Inhibition**
Protects internal components from moisture and oxidation damage.
- **Smooth Operation**
Reduces gear noise and promotes smooth gear engagement, especially in older or synchronized transmissions

Meets and Approvals

Meets:

- API GL-4

May meet manufacturer requirements for:





- MAN 341 Typ E1
- ZF TE-ML 08
- MIL-L-2105 (obsolete)

Typical Properties

Property	Method	Typical Value
Appearance	Visual	Bright, clear
Density @ 15°C	ASTM D4052	0.900 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	320 – 360 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	25.0 – 27.5 mm ² /s
Viscosity Index	ASTM D2270	≥95
Pour Point	ASTM D97	-15°C
Flash Point (COC)	ASTM D92	≥240°C
Timken OK Load	ASTM D2782	60 lb
Foaming (Seq I/II/III)	ASTM D892	Pass
Copper Corrosion (3h @ 121°C)	ASTM D130	1b
FZG Gear Test (A/8.3/90)	DIN 51354	Pass (Stage ≥10)

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

