



Product Name: GITRÖL SAE 140 GL-4

Application: Oil for manual transmissions and differentials

API Service: GL-4

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 10,000 Km

Product Overview

GITRÖL SAE 140 GL-4 is a premium-quality, heavy-duty gear oil designed for high-stress applications in gear systems. Formulated with high-quality mineral base oils and advanced additive technology, it provides exceptional load-bearing capacity, wear protection, and oxidation stability. This product meets and exceeds the requirements of API GL-4 and other international gear oil specifications, ensuring reliable performance in diverse operating conditions

Application

- Manual transmissions
- Transaxles and transfer boxes
- Steering gears
- Gearboxes in passenger cars, light and heavy-duty trucks, commercial vehicles, construction equipment, and agricultural machinery requiring API GL-4 level performance.

Performance Benefits

- **Exceptional Protection:** Prevents premature gear failure with superior viscosity retention and oxidation resistance.
- **Noise Reduction:** Ensures quieter gear operation with excellent shear stability.
- **High EP Performance:** Provides protection against wear, rust, and corrosion under extreme pressures.
- **Versatility:** Suitable for both ferrous and non-ferrous components in various applications.
- **Seal Compatibility:** Ensures optimal performance without damaging seals.

Meets and Approvals

Meets:

- API GL-4
- MIL-L 2105

Approvals:

- ZF TE-ML 02A, 08, 16A, 17A, 19A
- U.S. Steel 224
- DIN 51517 Part 3
- AGMA 9005-D94



- David Brown S1.53.101(E)

Typical Properties

| Property | Method | Unit | Typical Value |
|---------------------------------|-----------------|--------------------|---------------|
| Kinematic Viscosity @ 40°C | ASTM D445 | mm ² /s | 378 |
| Kinematic Viscosity @ 100°C | ASTM D445 | mm ² /s | 28.4 |
| Viscosity Index | ASTM D2270 | - | 103 |
| Density @ 15°C | DIN 51757 | g/cm ³ | 0.905 |
| Pour Point | DIN ISO 3016 | °C | -12 |
| Flash Point | DIN ISO 2592 | °C | 222 |
| Foaming Behavior (24°C) | ISO 6247 | ml | 0/0 |
| Foaming Behavior (93.5°C) | ISO 6247 | ml | 0/0 |
| Foaming Behavior (after 93.5°C) | ISO 6247 | ml | 0/0 |
| Sulfated Ash | DIN 51575 | % m/m | 0.02 |
| Oxide Ash | DIN EN ISO 6245 | g/100g | 0.01 |

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

