



ZF Friedrichshafen AG
Product Data Sheet

ZF LifeguardFluid MTA

Transmission Lubricant for Manual Transmissions – GL-5 85W140

ZF Lifeguard Fluid MTA conforms to GL-5, 85W-140 standard. This is a high-performance automotive gear oil formulated from high quality base oil and contains high EP additive for heavy duty conditions with excellent gear protection, longer oil drain interval and transmission life. This product provides for manual transmission, gearboxes and hypoid gear axles that presenting conditions of moderate to heavily load applications.

Applications:

- ❖ Recommended for passenger car, commercial vehicles, heavy duty trucks required API GL-5.
- ❖ Off-highway equipment for construction, mining and agriculture.
- ❖ Suitable for hypoid gear axles under severe service and shock loads.

Meets Performance:

- ❖ API GL-5
- ❖ ZF TE-ML 07A (Suitable for use: ZF TE-ML 16B, 16C, 17B and 19B)
- ❖ 150,000 km no harm field demonstration:
 - Heavy Duty Axle: Dana DS/RS 4040 Rear Axles
 - Light Duty Axle: Ford E-350 vans

Features and Benefits:

- ❖ Outstanding pitting, scuffing and wear protection.
- ❖ Excellent rust and corrosion protection.
- ❖ Effective low temperature lubrication.
- ❖ Good protection under high speed/shock load, high speed/low torque and low speed/high torque.
- ❖ Good in thermal and oxidation stability.

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Typical Properties :

| Properties | Test Method | Typical value |
|--|----------------------|----------------|
| Appearance | Visual | Bright & Clear |
| ASTM Color | ASTM D1500/D6045 | L2.5 |
| Density @15°C, g/cm ³ | ASTM D4052 | 0.9055 |
| Kinematic Viscosity @40°C, °C | ASTM D445 | 413.7 |
| Kinematic Viscosity @100°C, °C | ASTM D445 | 29.03 |
| Viscosity Index | ASTM D2270 | 98 |
| Flash Point by COC, °C | ASTM D92 | 244 |
| Pour Point, °C | ASTM D5950/6892/6749 | -21 |
| Brookfield @-12°C, mPa.s | ASTM D2983 | 97,000 |
| Foaming: Seq. II @93.5°C, Tendency/Stability | ASTM D892 | 0/0 |

These properties are typical of current production. Whilst future production will conform to ZF's specification, variations in these properties may occur.

Part Numbers:

| Product No. | Package | Size |
|--------------|----------|------|
| 5961.309.110 | Bottle | 1 L |
| 5961.309.111 | Canister | 4 L |

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