

ZF Friedrichshafen AG  
Product Data Sheet



## ZF LifeguardFluid MTH

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### Transmission Lubricant for Manual Transmissions – GL-5 80W90

ZF Lifeguard Fluid MTH conforms to GL-5, 80W-90 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 present conditions of moderate to heavily loaded 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
- ❖ 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	L2.0
Density @15°C, g/cm <sup>3</sup>	ASTM D4052	0.8788
Kinematic Viscosity @40°C, °C	ASTM D445	130.8
Kinematic Viscosity @100°C, °C	ASTM D445	14.04
Viscosity Index	ASTM D2270	105
Flash Point by COC, °C	ASTM D92	242
Pour Point, °C	ASTM D5950/6892/6749	-30
Brookfield @-26°C, mPa.s	ASTM D2983	65,100
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.		
5961.309.108	Bottle	1 L
5961.309.109	Canister	4 L

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