

Gear Oil ZF

“Limited Slip” Automotive Gear Oil



Product description

High performance, EP automotive gear oil specifically designed for “limited slip” rear drive differentials, particularly those of ZF design with multiplate clutches. Its special friction properties help to provide smooth, noise free operation of and extended life of these units.

Customer benefits

- **Quiet, shudder-free operation**
Special friction modifier system provides excellent lubricity characteristics for smooth, non-stick/slip engagement and disengagement of limited slip differential plate clutches.
- **Long gear life**
Effective EP additives control gear tooth wear, even under high torque, low speed and shock loading conditions. Rust and corrosion inhibitors prevent component damage by water of condensation or contamination.

Applications

- ZF limited slip differentials, including those with hypoid gears, as fitted to cars, trucks and buses and off-highway equipment.
- Other limited-slip differentials where oils meeting ZF TE-ML 05C, and 21C are specified.

Note: Appearance of product can turn hazy at temperatures below 5°C. This is due to the presence of friction modifier additives needed in limited slip differential mechanisms. Hazy appearance will not affect lubricant performance.

Approvals, performance and recommendations

- API GL-5 (self-certified)
- ZF (approved):
 - TE-ML 05C
 - TE-ML 21C
- John Deere JDM J11F (self-certified)

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Typical test data

GEAR OIL ZF

SAE Grade	80W-90
Product Code	510310
Pour Point, °C	-30
Oil Viscosity,	
mm ² /s @ 40°C	147
mm ² /s @ 100°C	15.0
Viscosity Index	102

Minor variations in product typical test data are to be expected in normal manufacturing.

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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