



# Hypoid LD

Extreme Pressure, "Long Drain" Automotive Gear Oil

Product Data Sheet

## Customer benefits

- **Extended oil drain intervals**  
Special frictional properties significantly lower axle running temperatures for cooler operation and less heat stress on the oil. Thermally stable EP system provides improved protection against pitting and wear, enabling extended drain capability compared with alternative technology oils.
- **Associated fuel savings**  
Special frictional properties give rise to improved axle efficiency with demonstrated fuel economy benefits under controlled conditions.
- **Long gear life**  
Thermally stable EP system limits corrosion of copper-containing bearings and bushings and provides improved steel pitting protection under severe conditions. The EP system also provides superior anti-wear protection of gear teeth, even under low speed, high torque and shock loading conditions.
- **Low environmental impact**  
Very low chlorine content reduces the environmental impact of ultimate disposal. Extended drain capability potentially lessens quantity of used oil requiring disposal.

## Applications

- Rear axles and other components of Mercedes-Benz, MAN and other European heavy-duty vehicles for both normal and long drain service
- Other automotive hypoid and spiral bevel drive axles for which API GL-5 oils are specified

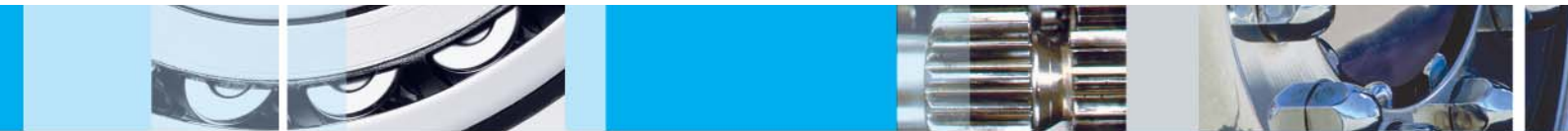
## Product features:

Premium performance, multipurpose, EP automotive gear lubricant specifically designed to meet Mercedes-Benz Sheet 235.6 requirements for "long drain" service in heavy-duty vehicle axles. Suitable also for many other drive axle applications for which API GL-5 gear lubricants are specified.

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## Performance standards

- API GL-5 (self-certified)
- Mercedes-Benz Sheet 235.6 (approved)
- MAN 342 Type M2 (long drain) (approved)
- ZF TE-ML 16C (approved)
- ZF TE-ML 17B (approved)
- ZF TE-ML-19B (approved)
- ZF TE-ML 21A (approved)

## Product specifications

HYPOID LD KEY PROPERTIES	RESULTS
SAE Grade	85W-90
Product Code	510321
Pour Point, °C	-27
Timken OK Load, kg	25
Viscosity,	
mm <sup>2</sup> /s @ 40°C	190
mm <sup>2</sup> /s @ 100°C	17.5
Viscosity Index	99

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

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 [www.caltexoils.com](http://www.caltexoils.com)

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