



## Gulf Gear TDL Total Driveline Lubricant

### Product Description

**Gulf Gear TDL** series are thermally stable total driveline gear lubricants designed to meet the severe requirements of drivetrains of light and heavy duty commercial vehicles. These are blended from premium quality base stocks and advanced performance additives to provide excellent protection to drivetrain components, improved gear shifting and enhanced synchroniser protection. These oils provide reliable protection against thermal and oxidation degradation, rust & corrosion and good low temperature fluidity.

### Features & Benefits

- Unique additive technology allows the use of a single lubricant in rear axles, synchronised and non-synchronised manual transmissions and therefore helps in rationalisation of products.
- Exceptional thermo-oxidative stability and load bearing characteristics help in extending the life of the driveline components and the oil.
- Effective rust and corrosion protection, especially to copper and its alloys reduces wear, extends synchroniser life and improves shifting performance
- Good low temperature fluidity reduces wear and provides easy start-up.
- Good anti-foam properties ensure film strength for effective lubrication.
- Superior seal compatibility minimises leakage and reduces chance of contamination

### Applications

- Rear axles, synchronised and non-synchronised manual transmissions requiring a single lubricant
- Drivetrains requiring oils meeting MAN M 3343 Type M or Scania STO 1:0 for axles and 1:1 G for gearboxes
- On-road and Off-highway transmission applications requiring lubricants meeting any of these specs:
  - API GL-4/GL-5
  - API MT-1
  - MIL-PRF-2105E
  - SAE J 2360
  - Mack GO-J
  - Renault
  - Eaton
  - DAF
  - Volvo
- Not recommended for automatic transmissions and limited-slip differentials

### Specifications, Approvals & Typical Properties

Meets the following Specifications	80W-90	85W-140
API GL-5, API MT-1, MIL-PRF-2105E, SAE J 2360	<b>x</b>	<b>x</b>
ZF TE-ML-05A, 07A, 08, 12E, 16C/D, 19B, DAF, MACK GO-J, Eaton*, MAN M 3343 Type M	<b>x</b>	<b>x</b>
ZF TE-ML-16D, Iveco (Axle), Scania STO 1:0 for axles		<b>x</b>
API GL-4/GL-5, Volvo 97310 , MB 235.0, Renault*, Iveco*	<b>x</b>	
Has the following Approvals		
MAN 342 Typ M2, MAN 341 Typ Z2, Scania STO 1:0 for axles and Scania STO 1:1 G for gearboxes	<b>x</b>	
ZF TE-ML-02B,05A,12L,12M,16B,17H,19B,21A (ZF Approval Number: ZF000780)	<b>x</b>	
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity at 100 °C, cSt	D 445	15.2      27.04
Viscosity Index	D 2270	101      99
Flash Point, °C	D 92	206      214
Pour Point, °C	D 97	-30      -18
Density @ 15°C, kg/l	D 1298	0.896      0.901

\* - Where either API GL-5, API MT-1 or MIL-PRF-2105E axle lubricants are recommended for use. Refer service manual September 2020

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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