



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. These oils meet the MAN specification M 3343 Type M and Scania STO 1:0 for total driveline applications.

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.
- 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		x	x
ZF TE-ML-05A, 07A, 08, 12E, 16C/D, 19B, DAF, MACK GO-J, Eaton*, MAN M 3343 Type M		x	x
ZF TE-ML-16D, Iveco (Axle)			x
API GL-4/GL-5, Volvo 97310 , MB 235.0, Renault*, Iveco*		x	
Has the following Approvals			
Scania STO 1:0 (Gearbox and Axle Gears)			x
MAN 342 Typ M2, MAN 341 Typ E2, MAN 341 Typ Z2 and ZF TE-ML-02B, 05A, 12L, 12M, 16B, 17B, 19B, 21A		x	
Scania STO 1:0 (Gearbox)		x	
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 July 2013

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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