



Gulf Gear TDL 80W-90

Total Driveline Lubricant

Product Description

Gulf Gear TDL 80W-90 is a thermally stable total driveline gear lubricant designed to meet the severe requirements of drivetrains of light and heavy duty commercial vehicles. This oil is blended from premium quality base stocks and advanced performance additives to provide excellent protection to drivetrain components, improved gear shifting and enhanced synchroniser protection. Gulf Gear TDL 80W-90 provides reliable protection against thermal and oxidative 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 and Scania STO 1:1 G for gearboxes & 1:0 for axles.
- On-road and Off-highway transmission applications requiring lubricants meeting any of these requirements:
 - 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
API GL-4/GL-5, API MT-1, MIL-PRF-2105E, SAE J 2360, MAN M 3343 Type M		X
ZF TE-ML-05A, 07A, 08, 12E, 16C/D, 19B, DAF, MACK GO-J, Eaton*		X
Volvo 97310, MB 235.0, Renault*, Iveco*		X
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		X
Approval according to ZF Lubricant Classes TE-ML 02B, TE-ML 05A, TE-ML 12L, TE-ML 12M, TE-ML 16B, TE-ML 17H, TE-ML 19B, TE-ML 21A (ZF Approval Number: ZF000780)		X
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity at 100 °C, cSt	D 445	14.5
Viscosity Index	D 2270	100
Flash Point, °C	D 92	220
Pour Point, °C	D 97	-30
Density @ 15°C, kg/l	D 1298	0.890

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

Gulf Europe, June 2023

Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

The information contained herein is believed to be correct at the time of publication and may be subject to modification from time to time. It is the user's responsibility to verify that this data sheet is current prior to using the product. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

This data sheet has been issued by us in English language only. In the event of any discrepancy between the English language version and any other language version, the English language version shall prevail.

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Direktorius pavaduotojas
pėtrais
Audrius Andreikėvičius

Gulf Gear TDL 80W-90 Total Driveline Lubricant

Produkto aprašymas

"Gulf Gear TDL " serija yra termiškai stabilūs bendri transmisijos pavaru tepalai, sukurti taip, kad atitiktų griežtus lengvųjų ir sunkiųjų komercinių transporto priemonių transmisijų reikalavimus. Jie yra sumaišyti su aukščiausios kokybės bazinėmis atsargomis ir pažangiais našumo priedais, kad būtų užtikrinta puiki pavaros komponentų apsauga, patobulintas pavaru perjungimas ir patobulinta sinchronizatoriaus apsauga. Šios alyvos užtikrina patikimą apsaugą nuo terminio ir oksidacijos, degradacijos, rūdžių ir korozijos bei gero sklandumo žemoje temperatūroje.

Savybės & Privalumai

- Unikali priedų technologija leidžia naudoti vieną tepalą galinėse ašyse, sinchronizuotose ir nesinchronizuotose rankinėse pavaru dėžėse ir taip padeda racionalizuoti produktus
- Išskirtinis termooksidacinis stabilumas ir laikančiosios savybės padeda prailginti transmisijos komponentų ir alyvos tarnavimo laiką
- Efektyvi apsauga nuo rūdžių ir korozijos, ypač vario ir jo lydinių, sumažina nusidėvėjimą, prailgina sinchronizatoriaus tarnavimo laiką ir pagerina perjungimo efektyvumą
- Geras žemos temperatūros sklandumas sumažina nusidėvėjimą ir užtikrina lengvą paleidimą
- Geros putų savybės užtikrina plėvelės stiprumą efektyviam tepimui
- Puikus sandarinimo suderinamumas sumažina nuotėkį ir sumažina užteršimo tikimybę

Programos

- Galinės ašys, sinchronizuotos ir nesinchronizuotos rankinės pavaru dėžės, kurioms reikalingas vienas tepalas
- Transmisijos, kurioms reikalingos alyvos, atitinkančios MAN M 3343 Type M ir Scania STO 1:1 G pavaru dėžėms & 1:0 ašims
- Pavaru dėžės kelyje ir bekelėje, kurioms reikalingos alyvos, atitinkančios bet kurią iš šių specifikacijų:
 - API GL-4 / GL-5
 - API MT-1
 - MIL-PRF-2105E
 - SAE J 2360
 - Mack GO-J
 - Renault
 - Eaton
 - DAF
 - Volvo
- Nerekomenduojama naudoti automatinėms transmisijoms ir riboto slydimo diferencialams

Specifikacijos, patvirtinimai ir tipinės savybės

Atitinka šias specifikacijas		80W-90
API GL-4/GL-5, API MT-1, MIL-PRF-2105E, SAE J 2360, MAN M 3343 Type M		X
ZF TE-ML-05A, 07A, 08, 12E, 16C/D, 19B, DAF, MACK GO-J, Eaton*		X
Volvo 97310, MB 235.0, Renault*, Iveco*		X
Turi šiuos patvirtinimus		
MAN 342 Typ M2, MAN 341 Typ Z2, Scania STO 1:0 axles ir Scania STO 1:1 G pavaru dėžėms		X
Patvirtinimas pagal ZF tepalų klases TE-ML 02B, TE-ML 05A, TE-ML 12L, TE-ML 12M, TE-ML 16B, TE-ML 17H, TE-ML 19B, TE-ML 21A (ZF patvirtinimo numeris: ZF000780)		X
Bandymo parametrai	ASTM metodas	
Klampa esant 100 °C temperatūrai, cSt	D 445	14.5
Klumpumo indeksas	D 2270	100
Pliūpsnio temperatūra, °C	D 92	220
Stingimo temperatūra, °C	D 97	-30
Tankis @ 15°C, kg/l	D 1298	0.890

* - Jei rekomenduojama naudoti API GL-5, API MT-1 arba MIL-PRF-2105E ašių tepalus. Žiūrėkite techninės priežiūros vadovą

2023 m.
birželis mėn.

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.

Gulf Oil International

The information contained herein is believed to be correct at time of publication. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

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MUMBAI - 400 093
INDIEN

Abt/Kürzel	E-Mail	Nürnberg
BST-TEAM	bstinfo@man.eu	05.06.2024

Subject: **Prolongation letter TUC 7704/06**
MAN standard: **MAN 342 M2**
MAN 341 Z2
Start of approval: 28.08.2006
End of approval: 27.08.2027
Validity: worldwide except USA, Spain & Portugal

Dear Sir or Madam,

we are pleased to inform you that the following product has been prolonged under MAN TUC 7704/06 .

Gulf Gear TDL
SAE 80W-90

This prolongation is only available for the unchanged formulation and in combination with the original approval letter. The approval will automatically expire at the point of time indicated above. A prolongation has to be applied within the approval period.

Yours faithfully,

MAN Truck & Bus SE

This letter was created electronically without signature.

MANDCS2000 BSD_SF_PROLONG_Vers. 2.0

Vorsitzender des Aufsichtsrats: Christian Levin
Vorstand: Alexander Vlaskamp (Vorsitzender)
Murat Aksel · Hubert Altschäffl · Friedrich-W. Baumann
Michael Kobriger · Inka Koljonen · Dr. Frederik Zohm

Sitz der Gesellschaft: München

Registergericht: Amtsgericht München, HRB 247520
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IBAN: DE36 7015 0000 0089 1044 00 BIC: SSKMDEMM

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E-mail winfried.fideler@zf.com
Your Ref.
Our Ref.
Date 2024-11-04

Gulf Gear TDL 80W-90

Dear Madam / Sir

Due to your confirmation that the formulation of your lubricant "Gulf Gear TDL 80W-90" (ZF approval number "ZF000780") has not changed and will continue to conform to the data of your approval application of "2012-08-30", we confirm approval for application according to the ZF Lubricant Class/es

- **TE-ML 02B**
- **TE-ML 05A**
- **TE-ML 12L**
- **TE-ML 12M**
- **TE-ML 16B**
- **TE-ML 17H**
- **TE-ML 19B**
- **TE-ML 21A**

Approval is based on the data in your approval application of "2012-08-30", extended on "2024-11-04". Any alterations of these data will result in withdrawal of approval and the need to submit a new application. You are under the obligation to report any changes to approved products without delay. The approval of this oil is subject to the General Terms and Conditions for Research and Development Services (applicable as of 12/2023) of ZF Friedrichshafen AG.

Approval is valid for 12 months. If after 11 months you use our approval system "lubricant data file" to confirm unaltered condition of the formulation, approval will be extended by another 12 months. If not, approval will automatically be withdrawn. A reminder will be mailed to you in good time.

Best regards

ZF Friedrichshafen AG

Stella Braunschweig

Chairman of the Supervisory Board: Dr. Heinrich Hiesinger
Board of Management: Dr. Holger Klein (CEO),
Dr. Lea Corzilius, Michael Frick, Dr. Peter Holdmann,
Prof. Dr. Peter Laier
Headquarters: Friedrichshafen ·
Trade register of the municipal court of Ulm HRB 630206

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HEXOL UTTO 80W - 10W30 PREMIUM

UNIVERSAL TRACTOR OIL

PRODUCT DESCRIPTION

HEXOL UTTO 80W – 10W30 Premium is a oil for hydraulic transmissions with special rheological properties, recommended for use throughout the year in tractors or other off-road vehicles on differentials, gearboxes, steering systems, hydraulic installations or other equipment to which the manufacturer recommends lubricating with such an oil. It is recommended for use in machines equipped with wet brakes. It consists of high quality mineral oils and high-performance additives.

PERFORMANCE FEATURES

- meets the requirements of API GL-4;
- meets the specifications of the main agricultural machinery manufacturers: John Deere J20C/D; Ford: M2C134D, M2C86B,C; J.I Case/Case Int: MS-1204,6,7,9; Case New Holland CNH MAT 3525, 3526, 3540; New Holland NH 420A,NH 410B; Massey Ferguson M-1135, M-1141, M-1143, M-1145; Kubota UDT Fluid; Volvo WB101, 97303; ZF TE ML 03E/05F/06E/06F/06K/17E/21E; Allison C-4; Caterpillar TO-2; Dennison HF-O, HF-1, HF-2; Sperry Vickers/Eaton: I-280-S & M2950S; Sauer Sunstrand/Danfoss: Hydro Static Trans Fluid or other types of vehicles or machinery whose manufacturers recommend the use of an oil with this classification;
- reacts with metal surfaces to prevent welding and to reduce wear;
- reduces corrosion and rust;
- contains anti-oxidative and anti-foaming additives.

APPLICATION

- for farm, industrial or construction equipments as well as any other equipments requiring a oil with SAE 80W - 10W30 viscosity and API Service GL-4 specifications;
- recommended for all year use.

PROPERTIES

Viscosity Grade SAE	80W – 10W30
API Service	GL-4
Density at 15°C [kg/m ³]	900
Kinematic Viscosity at 100°C [mm ² /s]	9.3-12.5
Viscosity Index, min	130
Flash Point [°C]min	220
Pour Point [°C]max	-25

Packaging

<input type="checkbox"/> 0.4kg	<input type="checkbox"/> 1kg	<input type="checkbox"/> 4kg	<input type="checkbox"/> 15kg	<input type="checkbox"/> 180kg		
<input type="checkbox"/> 0.23L	<input type="checkbox"/> 0.45L	<input type="checkbox"/> 0.5L	<input type="checkbox"/> 0.6L	<input type="checkbox"/> 0.9L	<input type="checkbox"/> 1L	<input type="checkbox"/> 3L
<input type="checkbox"/> 4L	<input type="checkbox"/> 5L	<input checked="" type="checkbox"/> 10L	<input checked="" type="checkbox"/> 20L	<input checked="" type="checkbox"/> 60L	<input checked="" type="checkbox"/> 208L	<input checked="" type="checkbox"/> 1000L



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- reacts with metal surfaces to prevent welding and to reduce wear;
- reduces corrosion and rust;
- contains anti-oxidative and anti-foaming additives.

APPLICATION

- for farm, industrial or construction equipments as well as any other equipments requiring a oil with SAE 80W - 10W30 viscosity and API Service GL-4 specifications;
- recommended for all year use.

PROPERTIES

Viscosity Grade SAE	80W – 10W30
API Service	GL-4
Density at 15°C [kg/m ³]	900
Kinematic Viscosity at 100°C [mm ² /s]	9.3-12.5
Viscosity Index, min	130
Flash Point [°C]min	220
Pour Point [°C]max	-25

Packaging

- | | | | | | | |
|--------------------------------|--------------------------------|---|---|---|--|---|
| <input type="checkbox"/> 0.4kg | <input type="checkbox"/> 1kg | <input type="checkbox"/> 4kg | <input type="checkbox"/> 15kg | <input type="checkbox"/> 180kg | | |
| <input type="checkbox"/> 0.23L | <input type="checkbox"/> 0.45L | <input type="checkbox"/> 0.5L | <input type="checkbox"/> 0.6L | <input type="checkbox"/> 0.9L | <input type="checkbox"/> 1L | <input type="checkbox"/> 3L |
| <input type="checkbox"/> 4L | <input type="checkbox"/> 5L | <input checked="" type="checkbox"/> 10L | <input checked="" type="checkbox"/> 20L | <input checked="" type="checkbox"/> 60L | <input checked="" type="checkbox"/> 208L | <input checked="" type="checkbox"/> 1000L |

HEXOL INTERNATIONAL LTD



HEXOL UTTO 80W – 10W30 PREMIUM

UNIVERSALI TRAKTORIAUS ALYVA

Direktorius pavaduotojas
pėtrai
Audrius Andreikėvičius



PRODUKTO APRAŠYMAS

HEXOL UTTO 80W – 10W30 Premium yra hidraulinė transmisijos alyva, pasižyminti aukštu klampos indeksu, atsparumu paviršių įtempimui ir deformacijai. Rekomenduojama naudoti ištikus metus traktorių ir kitų bekelės transporto priemonių diferencialuose, pavarų dėžėse, vairavimo ir hidraulinėse sistemose ar bet kurioje kitoje įrangoje, kur gamintojas rekomenduoja naudoti tokio tipo alyvą. Tinkama įrangoje su šlapiais stabdžiais. Sukurta aukštos kokybės mineralinių bazinių alyvų ir sudėtingų priedų paketo pagrindu.

VEIKIMO SAVYBĖS

- atitinka API GL-4 reikalavimus;
- atitinka pagrindinių žemės ūkio mašinų gamintojų specifikacijas: : John Deer J20C/D; Ford: M2C134D, M2C86B,C; J.I Case/Case Int: MS-1204,6,7,9; Case New Holland CNH MAT 3525, 3526, 3540; New Holland NH 420A,NH 410B; Massey Ferguson M-1135, M-1141, M-1143, M-1145; Kubota UDT Fluid; Volvo WB101, 97303; ZF TE ML 03E/05F/06E/06F/06K/17E/21E; Allison C-4; Caterpillar TO-2; Dennison HF-O, HF-1, HF-2; Sperry Vickers/Eaton: I-280-S & M2950S; Sauer Sunstrand/Danfoss: Hydro Static Trans Fluid arba kitų tipų transporto priemonės ar mašinos, kurių gamintojai rekomenduoja naudoti šią klasifikaciją atitinkančią alyvą;
- reaguoja su metaliniais paviršiais, kad sumažintų nusidėvėjimą;
- sumažina koroziją ir rūdis;
- sudėtyje yra antioksidacinių ir putojančių priedų.

TAIKYMAS

- žemės ūkio, pramonės ar statybos įrangai, taip pat bet kokiai kitai įrangai, kuriai reikalinga alyva su SAE 80W – 10W30 klampumu ir API GL-4 specifikacijomis;
- Rekomenduojama naudoti ištikus metus.

DUOEMENYS

Klampumo klasė	80W – 10W30
API	GL-4
Tankis 15°C temperatūroje [kg/m ³]	900
Kinematinis klampumas esant 100 °C [mm ² /s]	9,3 – 12,5
klampumo indeksas , min	130
Pliūpsnio temperatūra [°C]min	220
Stingimo temperatūra [°C]max	-25



PAKUOTĖS

<input type="checkbox"/> 0,4 kg	<input type="checkbox"/> 1kg	<input type="checkbox"/> 4kg	<input type="checkbox"/> 15kg	<input type="checkbox"/> 180kg	<input type="checkbox"/> 1l	<input type="checkbox"/> 3l
<input type="checkbox"/> 0.23l	<input type="checkbox"/> 0,45 l	<input type="checkbox"/> 0,5 l	<input type="checkbox"/> 0,6 l	<input type="checkbox"/> 0,9 l	<input checked="" type="checkbox"/> 10l	<input checked="" type="checkbox"/> 20l
<input type="checkbox"/> 4l	<input type="checkbox"/> 5l	<input checked="" type="checkbox"/> 10l	<input checked="" type="checkbox"/> 20l	<input checked="" type="checkbox"/> 60l	<input checked="" type="checkbox"/> 208l	<input checked="" type="checkbox"/> 1000l

HEXOL®