



**Transfer and offset transmissions
for commercial vehicles**

List of lubricants TE-ML 19

Table of contents

Page

1. Approved lubricant classes	1
2. Oil level check and oil change intervals	1
3. Low temperatures limits	2
4. Upper temperature limits	2
5. Explanation of footnotes and comments	2
6. Lubricant classes and approved trade products	3

1. Approved lubricant classes

Product group	Lubricant classes for service fills ⁽¹⁾	
	Normal operation ⁽²⁾	Heavy-duty application ⁽³⁾
VG750, VG754 VG1200, VG1600/300, VG1600/396 VG2000/300, VG2000/396, VG2010, VG2700 VG3800	19A / 19B / 19C / 19D	19B / 19C / 19D
DR500, DR1600, DR1610, DR1620	19A / 19B / 19C / 19D	19B / 19C / 19D
TC 27	19A / 19B / 19C / 19D	19B / 19C / 19D
TC 27 + PTO	19C ⁽⁶⁾ / 19D ⁽⁶⁾	19C ⁽⁶⁾ / 19D ⁽⁶⁾





2. Oil level check and oil change intervals

	Normal operation ⁽²⁾	Heavy-duty application ⁽³⁾
Oil level check	10.000 km	10.000 km
Oil change and cleaning of breather	60.000 km / 1 year ⁽⁴⁾	20.000 km / 1 year ⁽⁴⁾

The list of lubricants TE-ML 19, **edition 01.04.2024** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.aftermarket.zf.com/lubricants.

ZF Friedrichshafen AG
D-88038 Friedrichshafen
www.zf.com/contact

3. Low temperatures limits

Viscosity grades	Use at outside temperatures ⁽⁷⁾
SAE 75W-85, 75W-90	- 40°C 
SAE 80W-90	- 26°C 
SAE 85W-90	- 12°C 
SAE 90	- 5°C 

4. Upper temperature limits

Lubricant classes	Permanent admissible maximum oil sump temperature ⁽⁵⁾
19A, 19B	110 °C
19C, 19D	120 °C

5. Explanation of footnotes and comments

Footnotes

- (1) Refer to the following pages for approved commercial products.
- (2) Normal operation: mixed on-highway and off-road operation.
- (3) Heavy-duty application: primarily off-road operation (high levels of driving resistance, high loads, low speed) and special applications (such as heavy goods vehicle, mobile cranes, fire trucks, etc.).
- (4) Oil change required, depending on what occurs first.
- (5) If the permissible permanent maximum oil sump temperature is exceeded, additional cooling is required.
- (6) For the PTO application of the TC 27, the following low-temperature limits and warm-up conditions apply for the approved lubricants:

Low temperatures limits	Lubricant class	Warm-up before PTO application
+...°C to -10°C	19C, 19D	-
-11°C to -20°C	19C, 19D	5 minutes in Neutral at 500 rpm
-21°C to -30°C	19D	5 minutes in Neutral at 500 rpm
-31°C to -40°C	19D	10 minutes in Neutral at 500 rpm

- (7) When using at outside temperatures below -40°C, special measures must be taken or special lubricants must be used in consultation with ZF.

Comments

Additives of any kind added **later** to the oil change the oil in a manner that is unpredictable, and they are therefore not permitted. No liability of any kind will be accepted by ZF for any damage resulting from the use of such additives.

6. Lubricant classes and approved trade products

Lubricant class 19A

Gear oil

Viscosity grades: SAE 80W-90 / 85W-90 / 90

Manufacturer (19A)	Trade name (19A)	ZF approval number
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GS 80W-90	ZF000701
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL4 SAE 80W-90	ZF004779
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL4 SAE 85W-90	ZF004792
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX HP 90 GL-4	ZF001694
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA TRANSMISIONES 80W-90	ZF000023
CHEVRON LUBRICANTS, SAN RAMON, CA/US	TRANSLUBE LD SAE 90	ZF000801
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-4 80W-90	ZF002277
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR MULTIPURPOSE GEAR OIL SAE 80W90	ZF000622
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 90	ZF000428
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP MAX 90	ZF000471
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP DURA MAX 80W-90	ZF000684
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 90	ZF000874
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 85W-90	ZF000875
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 80W-90	ZF000893
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 80W-90	ZF001034
HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN	HP GEAR OIL ZFL 80W 90	ZF001526
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 35 SAE 80W-90	ZF002108
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90	ZF002054
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90	ZF001999
OILFINO MINERALÖL GMBH, PRISDORF/DE	OILFINO VARIUS G 300 SAE 80W-90	ZF000739
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR GL-4 80W-90	ZF000500
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR GL-4 80W-90	ZF011320
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL 80W90	ZF000768
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4	ZF001109
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EPM 90	ZF000633
SK ENMOVE CO.,LTD., SEUL/KR	SK GEAR EP 80W-90 ZF	ZF000715
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90	ZF000440
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90	ZF000445
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRAXIUM GEAR 7 80W-90	ZF006084
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRAXIUM GEAR 7 80W-90	ZF006085
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRAXIUM GEAR 7 85W-90	ZF008222
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRAXIUM GEAR 7 85W-90	ZF008223
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRANSELF EP 80W-90	ZF008381
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRANSELF EP 80W-90	ZF008382
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR	LUBRAX TRM 4 SAE 90	ZF001477
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR	LUBRAX TRM 4 SAE 90	ZF006103

Lubricant class 19B**Gear oil**

Viscosity grades: SAE 80W-90 / 85W-90 / 90

Manufacturer (19B)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CLASS KGAA MBH, HARSEWINKEL/DE
 CLASS KGAA MBH, HARSEWINKEL/DE
 CYCLON HELLAS SA, ATHENS/GR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 EKO ABE, ATHENS/GR
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GS CALTEX CORPORATION, SEOUL/KR
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HILL CORPORATION, SHYMKENT/KZ
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT

Trade name (19B)

ADDINOL GETRIEBEÖL GH 85W-90
 ADDINOL GETRIEBEÖL GH 80W-90
 ADDINOL GETRIEBEÖL GX 80W-90 ML
 ADDINOL GETRIEBEÖL GX 80 W 90
 AVISTA PEER EVO GL5 SAE 80W-90
 AVISTA PEER EVO GL4/GL5 SAE 80W-90
 AVISTA PEER EVO GL5 SAE 85W-90
 AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90
 SPAREX EP 90 GL-5
 SPAREX EP 90 GL-5
 SPAREX EP 80W-90 GL-5
 TECTROL MULTIGEAR PLUS 8090
 TECTROL MULTIGEAR HYP 90
 BELGIN LUBEX MITRAS AX EP MD 80W-90
 EVOLCA BGP 80W90
 CASTROL AXLE EPX 90
 CASTROL AXLE EPX 80W-90
 CASTROL AXLE EPX 80W-90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 CASTROL TRANSMAX AXLE EPX 80W-90
 CASTROL TRANSMAX AXLE EPX 85W-90
 CASTROL AXLE EPX 80W-90
 CASTROL TRANSMAX AXLE LONG DRAIN 80W-90
 CEPSA TRANSMISIONES EP 80W-90
 CEPSA TRANSMISIONES EP 90
 MAN SUPER AXLE 342-M2
 HYPOID LD SAE 85W-90
 MULTIGEAR EP SAE 90
 MULTIGEAR EP-5 SAE 80W-90
 DELO GEAR EP-5 SAE 80W-90
 DELO GEAR TDL 80W-90
 GEARTEX EP-5 85W-90
 GEARTEX EP-5 80W-90
 DELO GEAR CGA SAE 80W-90
 AGRISHIFT MT 80W-90
 AGRISHIFT MT 80W-90
 GEAR EP GL-5 80W-90
 TOR SUPER GEAR OIL 80W90
 EKO GEAROL-5 80W-90
 MULTIHIPO PLUS 80W-90
 MULTIHIPO 80W-90 F PLUS
 ENI ROTRA MP 80W-90
 MOBILUBE HD-A PLUS 80W-90
 MOBILUBE HD-A 85W-90
 MOBILUBE S 80W-90
 MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
 MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
 MOBIL DELVAC MODERN AXLE OIL 80W-90 HDA
 AVIATICON FINKOGEAR SUPER 80W-90
 FUCHS TITAN GEAR HYP LD SAE 80W-90
 FUCHS TITAN SUPERGEAR SAE 80W-90
 FUCHS TITAN GEAR HYP SAE 90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 GEARWAY G5 80W-90
 PENTOSIN GETRIEBEÖL O-226 80W-90
 PENTOSIN G5 85W-90
 FUCHS AGRIFARM GEAR SAE 80W-90
 PENTOSIN GEAR SAE 80W-90
 TITAN SUPERGEAR PLUS SAE 80W-90
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90
 KIXX GEARTEC X GL-5 80W-90
 GULF GEAR TDL 80W-90
 GULF GEAR DB 80W-90
 GULF GEAR DB 90
 GULF GEAR DB 85W-90
 GULF GEAR HD 85W-90
 GULF GEAR LD 80W-90
 FASTROIL MTF5 80W-90
 LONGEVIA TC ECO 80W-90
 LONGEVIA HD 80W-90
 INA HIPENOL GTL DB 90
 INA HIPENOL GTL HD 80W-90
 INA HIPENOL TDL 80W-90
 Q8 GEAR OIL XG SAE 80W-90
 Q8 T 55 SAE 80W-90
 Q8 T 55 SAE 90
 Q8 T 55 SAE 80W-90
 ROXOR TOPGEAR 80W-90
 LIEBHERR GEAR HYPOID 90 EP
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90
 LUKOIL TRANSMISSION B 85W-90

ZF approval number

ZF000555
 ZF000671
 ZF000672
 ZF003620
 ZF004777
 ZF004780
 ZF004793
 ZF004797
 ZF001693
 ZF002316
 ZF002317
 ZF001160
 ZF005977
 ZF006035
 ZF004735
 ZF000265
 ZF001320
 ZF001754
 ZF002143
 ZF002163
 ZF003394
 ZF004752
 ZF004885
 ZF000084
 ZF000097
 ZF000966
 ZF000788
 ZF001243
 ZF002137
 ZF002270
 ZF002273
 ZF002278
 ZF002279
 ZF003442
 ZF008203
 ZF008233
 ZF001604
 ZF000963
 ZF003351
 ZF001086
 ZF001456
 ZF000855
 ZF000042
 ZF000668
 ZF000776
 ZF008180
 ZF008311
 ZF009835
 ZF002299
 ZF000645
 ZF000647
 ZF000656
 ZF000722
 ZF001036
 ZF001195
 ZF001422
 ZF003624
 ZF004809
 ZF010958
 ZF000565
 ZF000566
 ZF003553
 ZF000780
 ZF000879
 ZF000886
 ZF000887
 ZF001151
 ZF001950
 ZF003435
 ZF008379
 ZF008396
 ZF000416
 ZF000417
 ZF000432
 ZF002103
 ZF002110
 ZF002112
 ZF003681
 ZF010966
 ZF004912
 ZF000695
 ZF001323
 ZF002053
 ZF010981

Manufacturer (19B)

TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (19B)

TRAXIUM AXLE 7 85W-90
 TRAXIUM AXLE 7 80W-90
 TRAXIUM AXLE 7 80W-90
 TRANSELF TYPE B 80W-90
 TRAXIUM AXLE 9 80W-90
 TRAXIUM AXLE 9 80W-90
 TRANSELF TYPE B 80W-90
 DYNATRANS HD 80W 90
 GEAR ZF 80W90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 KUBOTA 80W-90 GEAR LUBRICANT HD
 LUBRAX TRM 5 SAE 90
 DIVINOL MULTI-AXLE 80W90
 ZF ECOFLUID X SAE 80W-90

ZF approval number

ZF008211
 ZF008224
 ZF008225
 ZF008227
 ZF008229
 ZF008230
 ZF008231
 ZF008232
 ZF000343
 ZF001837
 ZF008218
 ZF006105
 ZF001684
 ZF001266

Lubricant class 19C**Gear oil**

Viscosity grades: SAE 75W-90

Manufacturer (19C)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 BASF SE, LUDWIGSHAFEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOOVE LUBRICANTS, GRAVESEND/GB
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTUL SA, AUBERVILLIERS/FR
 OEL-BRACK AG, HUNZENSCHWIL/CH
 ORLEN S.A., GDANSK/PL
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL ENERGY, JOHANNESBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR

Trade name (19C)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
 EMGARD HP 75W-90
 BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90
 EVOLCA SGP 75W90
 CASTROL TRANSMAX AXLE LONG LIFE 75W-90
 CASTROL TRANSMAX UNIVERSAL LL 75W-90
 CASTROL SAF-XO 75W-90
 CEPSA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 AVENO TDL ULTIMATE 75W-90
 MULTITHIPO 75W-90 SINT
 ENI ROTRA LSX 75W-90
 ENI ROTRA MP 75W-90
 MOBILUBE 1 SHC 75W-90
 MOBIL DELVAC 1 GEAR OIL 75W-90
 MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
 AVIATICON FINKOGEAR PREMIUM 75W-90
 FUCHS TITAN CYTRAC HSY SAE 75W-90
 FUCHS TITAN CYTRAC RR SAE 75W-90
 GEARWAY S5 75W-90
 FUCHS TITAN CYTRAC TD SAE 75W-90
 PENTOSIN GEAR PRO SAE 75W-90
 PENTOSIN GEAR ULTRA SAE 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 GULF SYNGEAR 75W-90
 LONGEVIA TCX ECO 75W-90
 SYNTHEGEAR 75W-90
 INA HIPENOL SHD 75W-90
 Q8 TRANS XGS 75W-90
 ROXOR SUPER DUTY SYNTH 75W-90
 LIEBHERR SYNTOGEAR PLUS 75W-90
 LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
 MOL HYKOMOL TDL 75W90
 COMMA PRO EP 75W-90 TDL
 YORK 896 75W90
 MOTOREX YORK PENTA TL SAE 75W/90
 MOTOREX YORK UNISYNT ZX SAE 75W90
 MOTUL GEAR SYNTH TDL 75W-90
 MIDLAND SENSOGEAR 75W-90
 TITANIS SUPER GL-5 75W/90
 TEBOIL HYPOID SAE 75W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 GALP TRANSVEX TDL 75W90
 MAXIGEAR D 75W-90
 TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 PETRONAS TUTELA AXLE 700 EHD 75W-90
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90
 RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90
 REPSOL CARTAGO FE LD 75W90
 REPSOL NAVIGATOR FE LL 75W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 ADME 75W- 90
 SINOPEC GREATWALL VT 75W/90
 SRS GETRIEBEFLUID SXL 75W-90
 TRAXIUM DUAL 9 FE 75W-90
 TRANSELF SYN FE 75W-90
 VALVOLINE HEAVY DUTY TDL PRO 75W-90
 NESTE PRO AXLE TDL 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90

ZF approval number

ZF002260
 ZF001716
 ZF005978
 ZF004734
 ZF002142
 ZF002144
 ZF006097
 ZF000086
 ZF000965
 ZF003554
 ZF003353
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 ZF001262
 ZF003334
 ZF000527
 ZF001655
 ZF006074
 ZF008393
 ZF001283
 ZF003631
 ZF003525
 ZF009462

Lubricant class 19D

Gear oil

Viscosity grades: SAE 75W-85

Manufacturer (19D)

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (19D)

SHELL SPIRAX S6 AZME 75W-85
ZF ECOFLUID XL SAE 75W-85

ZF approval number

ZF004894
ZF003441