



Industrial Technology

Transfer and offset transmissions for commercial vehicles

List of lubricants TE-ML 19

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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 01.04.2026** 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

Transmission oil

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

Manufacturer (19A)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 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
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PETROGAL S.A., LISBOA/PT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 SK ENMOVE CO.,LTD., SEOUL/KR
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR

Trade name (19A)

ADDINOL GETRIEBEÖL GS 80W-90
 AVISTA PEER EVO GL4 SAE 80W-90
 AVISTA PEER EVO GL4 SAE 85W-90
 TRANSLUBE LD SAE 90
 TOR MULTIPURPOSE GEAR OIL SAE 80W90
 GULF GEAR XP 90
 GULF GEAR XP MAX 90
 GULF GEAR XP DURA MAX 80W-90
 GULF GEAR MZ 90
 GULF GEAR MZ 85W-90
 GULF GEAR XP 80W-90
 GULF GEAR MZ 80W-90
 Q8 T 35 SAE 80W-90
 LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90
 CEPISA TRANSMISIONES 80W-90
 OILFINO VARIUS G 300 SAE 80W-90
 ORLEN OIL GEAR GL-4 80W-90
 GALP TRANSOIL 80W90
 RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4
 SK GEAR EP 80W-90 ZF
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90
 TRAXIUM GEAR 7 80W-90
 TRAXIUM GEAR 7 80W-90
 TRAXIUM GEAR 7 85W-90
 TRAXIUM GEAR 7 85W-90
 TRANSELF EP 80W-90
 TRANSELF EP 80W-90
 LUBRAX TRM 4 SAE 90
 LUBRAX TRM 4 SAE 90

ZF approval number

ZF000701
 ZF004779
 ZF004792
 ZF000801
 ZF000622
 ZF000428
 ZF000471
 ZF000684
 ZF000874
 ZF000875
 ZF000893
 ZF001034
 ZF002108
 ZF002054
 ZF001999
 ZF000023
 ZF000739
 ZF011320
 ZF000768
 ZF001109
 ZF000715
 ZF000440
 ZF000445
 ZF006084
 ZF006085
 ZF008222
 ZF008223
 ZF008381
 ZF008382
 ZF001477
 ZF006103

Lubricant class 19B

Transmission 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
 AVIA AG, MÜNCHEN/DE
 AVIA AG, MÜNCHEN/DE
 AVIA AG, MÜNCHEN/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
 BAPCO REFINING, AWALI/BH
 BAPCO REFINING, AWALI/BH
 BAPCO REFINING, AWALI/BH
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 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
 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 ABEE, ATHENS/GR
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ENILIVE 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
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 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE
 FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/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
 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 (BELGIUM) N.V., ANTWERP/BE
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE

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
 AVIA POWERTRAIN AX 85W-90
 AVIA POWERTRAIN GAX 80W-90
 AVIA POWERTRAIN PREMIUM AX 80W-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 HYP 90
 TECTROL MULTIGEAR PLUS 8090
 BELGIN LUBEX MITRAS AX EP MD 80W-90
 BELGIN LUBEX MITRAS AX EP PLUS 80W-90
 BELGIN LUBEX MITRAS AX EP EXTRA 80W-90
 EVOLCA BGP 80W90
 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 TRANSMAX AXLE LONG DRAIN 80W-90
 HYPOID LD SAE 85W-90
 MULTIGEAR EP SAE 90
 MULTIGEAR EP-5 SAE 80W-90
 DELO GEAR TDL 80W-90
 DELO GEAR EP-5 SAE 80W-90
 GEARTEX EP-5 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 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
 MOBILUBE HD-A 85W-90
 MOBIL DELVAC MODERN AXLE OIL 80W-90
 MOBIL DELVAC MODERN AXLE OIL 85W-90 V1
 MOBILUBE S 80W-90
 MOBILUBE HD-A 85W-90
 MOBIL DELVAC MODERN AXLE OIL 85W-90 V1
 AVIATICON FINKOGEAR SUPER 80W-90
 AVIATICON HYPOID EP 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
 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

ZF approval number

ZF000555
 ZF000671
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 ZF004912
 ZF000695
 ZF001323

ZF approval number

ULI MOLY GMBH, ULM/DE	LIQUI MOLY GMBH, ULM/DE	ZF002053
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION LD 80W-90	ZF010982
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION B 85W-90	ZF010981
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION UNI 80W-90	ZF012150
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL GL5 SAE 85W-90	ZF000069
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL TDL 80W-90	ZF001183
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 80W-90	ZF001998
MOEVE COMMERCIAL S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP 80W-90	ZF000084
MOEVE COMMERCIAL S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP 90	ZF000097
MOEVE COMMERCIAL S.A.U., MADRID/ES	MAN SUPER AXLE 342-M2	ZF000966
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL K 85W90	ZF001113
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL ZF 80W90	ZF001118
MOTOREX AG, LANGENTHAL/CH	YORK 793 SAE 80W90	ZF001129
MOTOREX AG, LANGENTHAL/CH	MOTOREX_YORK UNIVERSAL CT SAE 80W/90	ZF006108
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK UNIVERSAL SAE 80W90	ZF006027
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK GEAR ZX TP SAE 80W/90	ZF006006
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST GETRIEBEOEL FE SAE 80W-90 GL4/5	ZF000565
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST MEHRZWECK-GETRIEBEOEL SPEZIAL SAE 85W-90	ZF000566
OILFINO MINERALÖL GMBH, PRISDORF/DE	OILFINO VARIUS G 500 80W-90	ZF000741
OPET FUCHS MADENI YAG SAN. VE TIC. A.S., IZMIR/TR	OTOKAR SPECTRA DO Z 80W-90	ZF004755
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR GL-5 80W-90	ZF000502
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR GL-5 80W-90	ZF011288
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR LL 80W-90	ZF011188
ORLEN S.A., GDANSK/PL	LOTOS TITANIS GL-5 80W-90	ZF000923
ORLEN S.A., GDANSK/PL	TITANIS SUPER GL-5 80W-90	ZF001098
ORLEN S.A., GDANSK/PL	LOTOS TITANIS GL-5 80W-90	ZF005949
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF000764
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF003389
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF011024
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP 80W90	ZF000772
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP XT 80W90	ZF001981
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR EP-X 80W-90	ZF001499
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR TECH EP-X 80W-90	ZF001665
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF000007
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 90 (SAE 80W-90)	ZF000231
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 80W-90)	ZF000232
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKROS GEAR EP 90 (SAE 80W-90)	ZF000233
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W90/LA (SAE 80W-90)	ZF000516
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)	ZF000666
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF001201
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 90 (SAE 80W-90)	ZF003638
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W 90/LA (SAE 80W-90)	ZF003640
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF003641
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 80W-90)	ZF003642
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKROS GEAR EP 90 (SAE 80W-90)	ZF003658
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W 90/M-DA (SAE 80W-90)	ZF003659
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 80W-90	ZF003703
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 80W-90	ZF012051
PRISTA OIL HOLDING EAD, RUSE/BG	PRISTA EP 90	ZF000378
PRISTA OIL HOLDING EAD, RUSE/BG	PRISTA EP 80W-90	ZF000380
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5	ZF001110
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL SLG SAE 80W-90	ZF005984
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP SAE 90	ZF000379
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP MULTIGRADO SAE 80W90	ZF000623
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO LD 80W90	ZF001141
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR LL 80W-90	ZF008269
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR HQ GL-5 80W-90	ZF008271
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR HQ GL-5 SAE 90	ZF008273
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE	ROLF TRANSMISSION M5 A 80W-90	ZF003629
S.I.R.A.L. SPA, NOLA NAPOLI/IT	TRANSMISSION 80W-90 GL5	ZF006100
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF001233
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AD 80W-90	ZF001237
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AM 80W-90	ZF001292
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX HD 80W- 90	ZF001352
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX HD 80W- 90	ZF001353
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX HD 80W- 90	ZF001354
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S4 AX (80W-90)	ZF001619
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S4 AX (80W-90)	ZF001620
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S4 AX (80W-90)	ZF001621
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S4 AX (80W-90)	ZF008191
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF008187
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF010960
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF010963
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF010962
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF010959
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 AX 80W-90	ZF010961
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX MB 90	ZF008356
SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG	GEARLUBE HG M2 SAE 80W-90	ZF005976
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90	ZF002267
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90	ZF003332
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN HYPOID-GETRIEBEOEL 80W-90	ZF000441
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN HYPOID-GETRIEBEOEL 90	ZF000444
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS GETRIEBEFLUID SML 80W-90	ZF000447
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN HL 5 SAE 80W-90	ZF001911
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN HL 5 SAE 85W-90	ZF001912
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN HGAV 80W-90	ZF010330
TEDEX S.A., LUBOCHNIA/PL	TEDEX SUPER GEAR OIL (TDL) SAE 80W-90	ZF001342
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR	TEXSA GEAR MULTI GL-5 90	ZF001941
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR	TEXSA GEAR MULTI GL-5 80W90	ZF001942
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR	MONTANA DYNAMIC TRACTOGEAR 5 80W90	ZF003665

ZF approval number

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Lubricant class 19C

Transmission oil

Viscosity grade: SAE 75W-90

Manufacturer (19C)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVIA AG, MÜNCHEN/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
 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
 ENILIVE S.P.A., ROME/IT
 ENILIVE S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/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
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTUL SA, AUBERVILLIERS/FR
 OEL-BRACK AG, HUNZENSCHWIL/CH
 OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 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
 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
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR

Trade name (19C)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
 AVIA POWERTRAIN SUPREME GAX 75W-90
 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
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 AVENO TDL ULTIMATE 75W-90
 MULTIHIPO 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
 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 VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 LUKOIL TRANSMISSION MN 75W-90
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
 CEPESA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 MOL HYKOMOL TDL 75W90
 MOTOREX YORK PENTA TL SAE 75W/90
 MOTOREX YORK UNISYNT ZX SAE 75W90
 YORK 896 75W90
 MOTUL GEAR SYNTH TDL 75W-90
 MIDLAND SENSOGear 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 TRAXON SYNTHETIC 75W-90
 TRAXON SYNTHETIC 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
 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
 HOYER GEAR F-FP 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90

ZF approval number

ZF002260
 ZF012039
 ZF001716
 ZF005978
 ZF004734
 ZF002142
 ZF002144
 ZF006097
 ZF003554
 ZF003353
 ZF000829
 ZF000964
 ZF010792
 ZF000653
 ZF000860
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 ZF001681
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 ZF002249
 ZF000642
 ZF000732
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 ZF000977
 ZF000179
 ZF009457
 ZF006012
 ZF001347
 ZF010972
 ZF012099
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 ZF003334
 ZF000527
 ZF001655
 ZF006074
 ZF008393
 ZF001283
 ZF011993
 ZF003525
 ZF009462

Lubricant class 19D
Transmission oil
Viscosity grade: SAE 75W-85

Manufacturer (19D)	Trade name (19D)	ZF approval number
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	SHELL SPIRAX S6 AZME 75W-85 ZF ECOFLUID XL SAE 75W-85	ZF004894 ZF003441