



Transmissions and axles for lift-trucks

List of lubricants TE-ML 17

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1. Approved lubricant classes

Product group	Lubricant classes for service fills ⁽¹⁾
Spur-bevel gear drives GRP8, HFK 100-600, GK20LD, GK25LD, GK40	17A / 17B / 17H
- Turntable bearing GRP8, HFK 100-600, GK20LD, GK25LD, GK40	grease Shell Alvania RL3 ⁽²⁾
Spur-bevel gear drives GK10, GK16, GK20, GK25, GK26LD, GK30	17B / 17H
Planetary gear transmissions GR10	transmission grease Esso Unirex N2
Helical gear drive HFD 80	low-viscosity grease for gears Klüber Mikrolube GB 00 transmission grease Klübersynth GE46-1200 ⁽⁴⁾
Electrical power steering EPS3 - Transmission - Wheel hub	low-viscosity grease for gears Total MULTIS EP 00 grease Shell Alvania RL3 ⁽²⁾
Planetary gear transmissions HFS 502, HFS 507, GP18, GP20	17C
Planetary gear transmissions GP21, GP23, GP25	17C
Planetary gear transmissions GP25 without brake	17A / 17H
Planetary gear transmissions HFP 10, HFP 10A	grease Shell Alvania RL3 ⁽²⁾
Planetary gear transmissions HFP 20, HFP 40, HFP 50, GR50	17A / 17B / 17H
Axles PR61S, PR20MO, PR40MO, P16MO	17B / 17H
WG 80, WG 81, WG 85, WG 86	refer to TE-ML 03 ⁽³⁾
- attached axles	17B / 17H
Axles AT30	17E / 17G
Axles AT35	17E ⁽⁵⁾ / 17F / 17G ⁽⁵⁾
Axles GPA35	Transmission: 17H; Multidisk brake: 17C

The list of lubricants TE-ML 17, **edition 01.01.2019** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.zf.com/lubricants.

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

2. Low temperatures limits

Lubricant classes	Oil type / viscosity grades	Initial vehicle start-up at oil sump temperatures
17C	- ATF	- 40°C 
17A, 17B	- SAE 75W-80, 75W-85, 75W-90	- 40°C 
17E, 17F, 17G	- SAE 10W-30, 10W-40, other	- 35°C 
17A, 17B, 17E, 17H	- SAE 80, 80W-85, 80W-90, 20W-40	- 26°C 
17A, 17B, 17H	- SAE 85W-90	- 12°C 
17A, 17B, 17H	- SAE 90	- 5°C 

3. Explanation of footnotes and comments

Footnotes

- (1) **Refer to the following pages for approved commercial products.**
- (2) Other saponified lithium mineral oil-based multigrade greases of the NLGI class 3 may be used alternatively (grease code KP2K-30 in accordance with DIN 51825 or ISO-L-XCCHB2 in accordance with ISO 6743-9).
- (3) The current list TE-ML 03 can be requested from any ZF after-sales service center or accessed on the Internet under www.zf.com/lubricants.
- (4) For refrigerated warehouse use only.
- (5) The lubricant classes 17E and 17G apply for service oil changes and may only be used with run-in axle as of a total vehicle operation performance of 1,500h. During the axle run-in process (total vehicle operation of 0 up to 1,500 km) only oil of the lubricant class 17F must be used.

Comments

A lithium saponified multipurpose grease of NLGI class 2 which is mixable with mineral oil is to be used at greasing points (grease code KP2K-30 in acc. with DIN 51825 or ISO-L-XCCHB2 in accordance with ISO 6743-9).

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.

4. Lubricant classes and approved trade products

Lubricant class 17A

Manufacturer (17A)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAĞLAR TIC. VE SAN. A.S., KOCAELI/TR
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 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
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 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
 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
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 IPIRANGA PRODUTOS DE PETRÓLEO SA, RIO DE JANEIRO/BR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTUL SA, AUBERVILLIERS/FR
 NESTE MARKKINOINTI OY, ESPOO/FI
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OPET FUCHS MADENI YAĞ. SAN. VE TIC. A.S., IZMIR/TR
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 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
 PT. PERTAMINA, JAKARTA/ID
 PTT OIL AND RETAIL BUSINESS PLC., BANGKOK/TH
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 RN-LUBRICANTS, LLC, MOSCOW/RU
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB

Trade name (17A)

ADDINOL GETRIEBEÖL GS 80W
 ADDINOL GETRIEBEÖL GS 80W-90
 ARAL GETRIEBEÖL EP 80W
 ARAL GETRIEBEÖL EP 80W-90
 PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 80W
 PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 90
 SPAREX HP 90 GL-4
 TECTROL UNIGEAR 80
 BELGEAR EP MB 80
 BP ENERGEAR EP 80W
 BP ENERGEAR EP 80W-90
 GEAR OIL EP 80W
 CASTROL MANUAL EP 80W
 CASTROL MANUAL EP 80W-90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CEPSA TRANSMISIONES 80W-90
 ERTOIL TRANSMISIONES F SAE 80W
 TRANSLUBE LD SAE 80W
 TRANSLUBE LD SAE 90
 GEARTEX EP-4 80W
 GEARTEX EP-4 80W-90
 TOR MULTIPURPOSE GEAR OIL SAE 80W90
 MOBILUBE GX-A 80W
 FUCHS TITAN GEAR MP SAE 80
 GEARWAY G4 80W
 FUCHS TITAN TITAN GEAR ZF SAE 80
 G-BOX EXPERT GL-4 80W-85
 G-TRUCK GL-4 80W-90
 GAZPROMNEFT GL-4 80W-85
 GAZPROMNEFT GL-4 80W-90
 KIXX GEARTEC X GL-4 80W
 GULF GEAR XP 80W
 GULF GEAR XP 80W
 GULF GEAR XP 90
 GULF GEAR XP MAX 90
 GULF GEAR XP DURA MAX 80W-90
 GULF GEAR MZ 80W
 GULF GEAR MZ 90
 GULF GEAR MZ 85W-90
 GULF GEAR XP 80W-90
 GULF GEAR MZ 80W-90
 GULF GEAR XP 80W
 GULF GEAR ZX 80W
 FASTROIL MTF4 80W-90
 HP GEAR OIL ZFL 80W 90
 HP GEAR OIL ZFL 80W
 INA TRANSMOL HD 80W-90
 INA TRANSMOL DB 80W
 SERVO GEAR ALT 90
 SERVO GEAR HP 80W-90 (T)
 SERVO UNIDRIVE 80W-90
 IPIRANGA ULTRAGEAR MB 80W
 Q8 T 35 SAE 80W
 Q8 T 35 SAE 80W-90
 LIQUI MOLY GETRIEBEÖL GL4 SAE 80W
 LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 80W
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90
 MOL HYKOMOL 80W
 MOTUL GEAR MB 80W
 NESTE GEAR EP 80W-90
 OILFINO VARIUS G 300 SAE 80W-90
 LUKOIL TRANSMISSION TM-4 SAE 80W
 LUKOIL TRANSMISSION MP 85W-90
 LUKOIL TRANSMISSION GL-4 HD 80W-90
 OPET FULLGEAR EP MT 80W
 PLATINUM GEAR GL-4 80W
 PLATINUM GEAR GL-4 80W-90
 LUBRAX TRM 4 SAE 80W
 LUBRAX TRM 4 SAE 90
 GALP TRANSOIL 80W
 GALP TRANSOIL 80W90
 MAXIGEAR TECH EP 80W
 TUTELA TRANSMISSION STARGEAR (SAE 80W)
 TUTELA TRANSMISSION STARGEAR HD (SAE 80W)
 RORED EPA 80W
 PTT SUPERTRANS 80W
 RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4
 REPSOL CARTAGO EPM 80W
 REPSOL CARTAGO EPM 90
 ROSNEFT KINETIC MT 80W-90
 SHELL SPIRAX MA 80 W

ZF approval number

ZF000630
 ZF000701
 ZF000458
 ZF001715
 ZF000678
 ZF000679
 ZF001694
 ZF001162
 ZF000665
 ZF000198
 ZF001216
 ZF000600
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 ZF001028
 ZF001399
 ZF001361
 ZF001109
 ZF000631
 ZF000633
 ZF003448
 ZF000325

Manufacturer (17A)

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SK LUBRICANTS, SEOUL/KR
 SK LUBRICANTS, SEOUL/KR
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE CUMMINS PVT LIMITED, GURGAON/IN
 YPF S.A., BUENOS AIRES/AR

Trade name (17A)

SHELL SPIRAX MA 80 W
 SHELL SPIRAX S3 G 80W-90
 SHELL SPIRAX S3 G 80W
 SINOPEC GREATWALL MTF C-I 80W
 SINOPEC GREATWALL MTF C-I 80W-90
 SINOPEC GREATWALL MTF C-I 85W-90
 SK GEAR EP 80W-90 ZF
 TATADW G EP 80W-90
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80
 SRS WIOLIN RSG 80
 SRS WIOLIN ML 4 PLUS SAE 80W
 SRS WIOLIN ML 4 PLUS SAE 80W-90
 SRS WIOLIN ML 4 PLUS SAE 90
 TOTAL TRANSMISSION GEAR 7 80W-90
 TOTAL TRANSMISSION GEAR 7 80W-85
 ELF TRANSELF EP 80W
 ELF TRANSELF EP 80W-90
 GEAR EP 80W
 GEAR EP 80W90
 VALVOLINE GEAR GARD PLUS 80W90
 HELICOIDAL M (80W)

ZF approval number

ZF000326
 ZF001298
 ZF001299
 ZF001299
 ZF001727
 ZF001933
 ZF001936
 ZF001936
 ZF000715
 ZF002132
 ZF000440
 ZF000445
 ZF000446
 ZF000452
 ZF001914
 ZF001915
 ZF001916
 ZF001916
 ZF001772
 ZF001776
 ZF002067
 ZF002068
 ZF000377
 ZF001051
 ZF000985
 ZF000657

Lubricant class 17B

Manufacturer (17B)

Trade name (17B)

ZF approval number

ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 85W-90	ZF000555
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 80W-90	ZF000671
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 75 W 90 SL	ZF002260
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GX 80 W 90	ZF003620
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL BS 75W-90	ZF000133
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL SNA-D 80W-90	ZF000135
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL SNA-E 75W-90	ZF000142
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL HYP 85W-90	ZF000464
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	PENNASOL HYPOID GEAR OIL GL 5 SAE 90	ZF000680
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	PENNASOL MULTIGRADE HYPOID GEAR OIL GL 5 SAE 80W90	ZF000681
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 90 GL-5	ZF001693
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 90 GL-5	ZF002316
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 80W-90 GL-5	ZF002317
BASF SE, LUDWIGSHAFEN/DE	EMGARD UAF 4209	ZF000363
BASF SE, LUDWIGSHAFEN/DE	EMGARD RW-A, SAE 75W-90	ZF000917
BASF SE, LUDWIGSHAFEN/DE	EMGARD HP 75W-90	ZF001716
BASF SE, LUDWIGSHAFEN/DE	EMGARD UAF 7105	ZF001876
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR HYP 90	ZF001159
BP PLC., LONDON/GB	BP ENERGEAR HYPO XL 80W-90	ZF000205
BP PLC., LONDON/GB	BP ENERGEAR SHX-M 75W-90	ZF000208
BP PLC., LONDON/GB	BP ENERGEAR HYPO 90	ZF000828
BP PLC., LONDON/GB	BP ENERGEAR HYPO 80W-90	ZF001321
BUCHER AG LANGENTHAL, LANGENTHAL/CH	UNISYNT ZX SAE 75W90	ZF000354
BUCHER AG LANGENTHAL, LANGENTHAL/CH	UNIVERSAL SAE 80W/90	ZF002004
BUCHER AG LANGENTHAL, LANGENTHAL/CH	GEAR OIL HYPOID SAE80W/90	ZF002005
BUCHER AG LANGENTHAL, LANGENTHAL/CH	PENTA TL SAE 75W/90	ZF003411
BUCHER AG LANGENTHAL, LANGENTHAL/CH	UNIVERSAL CT SAE 80W/90	ZF003531
CASTROL LTD, LONDON/GB	CASTROL AXLE LONG DRAIN 80W-90	ZF000229
CASTROL LTD, LONDON/GB	CASTROL SYNTRAX LONG LIFE 75W-90	ZF000230
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 90	ZF000265
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF001320
CASTROL LTD, LONDON/GB	SYNTRAX UNIVERSAL PLUS 75W-90	ZF001471
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF001754
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE LONG LIFE 75W-90	ZF002142
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX UNIVERSAL LL 75W-90	ZF002144
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 80W-90	ZF002163
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 85W-90	ZF003394
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP 80W-90	ZF000084
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP FE+LD 75W-90	ZF000086
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP 90	ZF000097
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	MAN SUPER AXLE 3343 75W-90	ZF000965
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	MAN SUPER AXLE 342-M2	ZF000966
CHAMPION CHEMICALS N.V., HEMIKSEM/BE	CHAMPION OEM SPECIFIC 75W90 GL 5	ZF003554
CHEVRON LUBRICANTS, SAN RAMON, CA/US	HYPOID LD SAE 85W-90	ZF000788
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-B 85W-90	ZF000806
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-C 80W-90	ZF000807
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP SAE 90	ZF001243
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP-5 SAE 80W-90	ZF002137
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 80W-90	ZF002270
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-5 85W-90	ZF002278
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-5 80W-90	ZF002279
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-TDL 75W-90	ZF003353
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR CGA SAE 80W-90	ZF003438
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR CGA SAE 80W-90	ZF003442
CLASS KGAA MBH, HARSEWINKEL/DE	CLAAS AGRISHIFT MT 80W-90	ZF002088
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR	GEAR TXS 75W90	ZF000829
CYCLON HELLAS SA, ATHENS/GR	GEAR EP GL-5 80W-90	ZF001604
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR SUPER GEAR OIL 80W90	ZF000963
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR UNI GEAR LD 75W90	ZF000964
EKO ABEE, ATHENS/GR	EKO GEAROL-5 80W-90	ZF003351
ENI S.P.A., ROME/IT	ENI ROTRA MP 80W-90	ZF000855
ENI S.P.A., ROME/IT	ENI ROTRA LSX 75W-90	ZF000860
ENI S.P.A., ROME/IT	ENI ROTRA MP 75W-90	ZF003364
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE 1 SHC 75W-90	ZF000041
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A PLUS 80W-90	ZF000042
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF000668
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90	ZF000763
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC 1 GEAR OIL 75W-90	ZF001681
FABRIKA MAZIVA FAM AD, KRUSĚVAC/RS	MULTIHIPO 75W-90 SINT	ZF000653
FABRIKA MAZIVA FAM AD, KRUSĚVAC/RS	MULTIHIPO PLUS 80W-90	ZF001086
FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE	AVIATICON FINKOGEAR PREMIUM 75W-90	ZF002249
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC HSY SAE 75W-90	ZF000642
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR HYP LD SAE 80W-90	ZF000645
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR SAE 80W-90	ZF000647
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR HYP SAE 90	ZF000656
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC RR SAE 75W-90	ZF000732
FUCHS PETROLUB SE, MANNHEIM/DE	GEARWAY S5 75W-90	ZF001030
FUCHS PETROLUB SE, MANNHEIM/DE	GEARWAY G5 80W-90	ZF001036
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GETRIEBEÖL O-226 80W-90	ZF001195
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN G5 85W-90	ZF001422
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC TD SAE 75W-90	ZF003341
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-TRUCK GL-5 80W-90	ZF000556
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT SUPER T-3 SAE 85W90	ZF000946
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-BOX GL-4/GL-5 75W-90	ZF000962
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-4/GL-5 75W-90	ZF002302
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	KAMAZ G-PROFI SERVICE LINE GL-4/GL-5 75W-90	ZF003388
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-5 80W-90	ZF003509

Manufacturer (17B)

GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GRUPA LOTOS S.A., GDANSK/PL
 GRUPA LOTOS S.A., GDANSK/PL
 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
 HILL CORPORATION, SHYMKENT/KZ
 HUILES BERLIET S.A., SAINT-PIERRE/FR
 HUILES BERLIET S.A., SAINT-PIERRE/FR
 HUILES BERLIET S.A., SAINT-PIERRE/FR
 IGOL FRANCE, AMIENS/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
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 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
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOOVE LUBRICANTS, GRAVESEND/GB
 MOOVE LUBRICANTS, GRAVESEND/GB
 MORRIS LUBRICANTS, SHREWSBURY/GB
 MOTUL SA, AUBERVILLIERS/FR
 MOTUL SA, AUBERVILLIERS/FR
 NIS AD, NOVI SAD/RS
 NIS AD, NOVI SAD/RS
 NIS AD, NOVI SAD/RS
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
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 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETROL OFISI A.S., ISTANBUL/TR
 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
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 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
 PRISTA OIL HOLDING EAD, RUSE/BG
 PRISTA OIL HOLDING EAD, RUSE/BG
 PRISTA OIL HOLDING EAD, RUSE/BG
 QATAR LUBRICANTS COMPANY, DOHA/QA

Trade name (17B)

OEST SYNTH GETRIEBEÖL SAE 75W-90
 OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90
 TITANIS SUPER GL-5 75W/90
 LOTOS TITANIS GL-5 80W-90
 KIXX GEARTEC X GL-5 80W-90
 GULF SYNGEAR 75W-90
 GULF GEAR DB 80W-90
 GULF GEAR DB 90
 GULF GEAR DB 85W-90
 GULF GEAR LD 80W-90
 GULF GEAR HD 85W-90
 GULF GEAR LD 80W-90
 FASTROIL TRANSMISSION I 80W-90 GL-5
 FASTROIL MTF5 80W-90
 RTO HD 80W-90
 RTO LONGEVIA TC ECO 80W-90
 RTO LONGEVIA TCX ECO 75W-90
 SYNTHEGEAR 75W-90
 INA HIPENOL GTL DB 90
 INA HIPENOL GTL HD 80W-90
 INA HIPENOL SHD 75W-90
 Q8 TRANS XGS 75W-90
 Q8 T 55 SAE 80W-90
 Q8 T 55 SAE 90
 Q8 T 55 SAE 80W-90
 LIEBHERR GEAR HYPOID 90 EP
 LIEBHERR SYNTOGEAR PLUS 75W-90
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90
 LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90
 MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90
 MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90
 MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90
 MOL HYKOMOL K 85W90
 MOL HYKOMOL ZF 80W90
 MOL HYKOMOL TDL 75W90
 COMMA PRO EP 80W-90
 COMMA PRO EP 75W-90 TDL
 EP 80W-90 GEAR OIL
 MOTUL TRANS MB 85W-90
 MOTUL GEAR SYNTH TDL 75W-90
 NISOTEC HIPO LD SAE 80W-90
 NISOTEC HIPO SINT TDL SAE 75W-90
 OILFINO VARIUS G 500 80W-90
 LUKOIL TRANSMISSION TM-4/5 75W-90
 LUKOIL TRANSMISSION TM-5 SAE 90
 LUKOIL TRANSMISSION TM-5 85W-90
 LUKOIL TRANSMISSION TM-5 SAE 80W-90
 LUKOIL TRANSMISSION TM-5 SAE 85W-90
 LUKOIL TRANSMISSION TM-5 SAE 90
 LUKOIL TRANSMISSION B 85W-90
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 LUKOIL TRANSMISSION UNI S 75W-90
 LUKOIL TRANSMISSION MN 75W-90
 LUKOIL TRANSMISSION GL-5 80W-90
 LUKOIL TRANSMISSION GL-5 90
 OPET FULLGEAR HYP EP MT 90
 PLATINUM GEAR GL-5 80W-90
 TEBOIL HYPOID SAE 75W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 PANOLIN SUPER DUTY SYNTH 75W/90
 PANOLIN SUPER DUTY 90
 PANOLIN SUPER DUTY 80W/90
 PAZ GEAR LD 80W-90
 TRAXON 80W-90
 GALP TRANSOIL HP 80W90
 GALP TRANSVEX TDL 75W90
 GALP TRANSOIL HP XT 80W90
 MAXIGEAR EP-X 80W-90
 MAXIGEAR D 75W-90
 MAXIGEAR TECH EP-X 80W-90
 ARBOR TRW 90 (SAE 80W-90)
 AMBRA HYPOIDE 90 (SAE 80W-90)
 AKCELA GEAR 135H EP (SAE 80W-90)
 AKROS GEAR EP 90 (SAE 80W-90)
 TUTELA TRANSMISSION W90/LA (SAE 80W-90)
 TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)
 TUTELA TRANSMISSION STARGEAR AX (SAE 85W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
 ARBOR TRW 90 (SAE 80W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 PRISTA EP 90
 PRISTA EP 80W-90
 QALCO SUPER GEAR OIL ZX 80W-90

ZF approval number

ZF000491
 ZF000566
 ZF000356
 ZF000923
 ZF003553
 ZF000863
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 ZF000886
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 ZF001134
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 ZF003435
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 ZF001738
 ZF001203
 ZF003606
 ZF000378
 ZF000380
 ZF002077

Manufacturer (17B)

RAVENBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 RN-LUBRICANTS, LLC, MOSCOW/RU
 RN-LUBRICANTS, LLC, MOSCOW/RU
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL OIL, RANDBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
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 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
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 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TEDEX S.A., WARSAWA/PL
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 YPF S.A., BUENOS AIRES/AR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Trade name (17B)

RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5
 REPSOL CARTAGO EP SAE 90
 REPSOL CARTAGO FE LD 75W90
 REPSOL CARTAGO EP MULTIGRADO SAE 80W90
 REPSOL CARTAGO LD 80W90
 ROSNEFT KINETIC HYPOID 80W-90
 ROSNEFT KINETIC HYPOID 85W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 ROLF TRANSMISSION M5 A 80W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX MB 90
 SHELL SPIRAX MB 90
 SHELL SPIRAX S3 AX 80W-90
 SHELL SPIRAX S3 AD 80W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S6 ADME 75W- 90
 SINOPEC GREATWALL VT 75W/90
 SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90
 SRS WIOLIN HYPOID-GETRIEBEÖL 90
 SRS GETRIEBEFLUID SXL 75W-90
 SRS WIOLIN HL 5 SAE 80W-90
 SRS WIOLIN HL 5 SAE 85W-90
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
 TEXSA GEAR MULTI GL-5 90
 TEXSA GEAR MULTI GL-5 80W90
 ELF TRANSELF SYNTHSE FE 75W-90
 TOTAL TRANSMISSION AXLE 7 80W-90
 TOTAL TRANSMISSION DUAL 9 FE 75W-90
 TOTAL TRANSMISSION AXLE 7 85W-90
 TOTAL TRANSMISSION AXLE 9 80W-90
 ELF TRANSELF TYPE B 90
 ELF TRANSELF TYPE B 80W-90
 TOTAL DYNATRANS HD 80W-90
 GEAR ZF 80W90
 VALVOLINE HEAVY DUTY TDL PRO 75W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90
 YORK 896 75W90
 YORK 793 SAE 80W90
 HIPOIDAL SUPER S 75W-90
 DIVINOL MULTI-AXLE 80W90

ZF approval number

ZF001110
 ZF000379
 ZF000451
 ZF000623
 ZF001141
 ZF003335
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 ZF003525
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 ZF000550
 ZF001129
 ZF003384
 ZF001684

Lubricant class 17C

Manufacturer (17C)

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
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPESA 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
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 ENI S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 HILL CORPORATION, SHYMKENT/KZ
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 IPIRANGA PRODUTOS DE PETRÓLEO SA, RIO DE JANEIRO/BR
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MORRIS LUBRICANTS, SHREWSBURY/GB
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SPECOL SP. Z O.O., CHORZOW/PL
 TEDEX S.A., WARSZAWA/PL
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (17C)

AVISTA SUPER FLUID TYP P/CN
 AVISTA SUPER FLUID ATF 3000
 PENNASOL SUPER FLUID ATF 3000
 PENNASOL SUPER FLUID TYP P/CN
 MOTOR GOLD FLUIDTEC TYP P/CN
 MOTOR GOLD FLUIDTEC ATF 3000
 ATF TP
 CEPESA ATF 3000 S
 CEPESA ATF 2000S
 HAVOLINE ATF MERCON V
 SYNTHETIC AUTOMATIC TRANSMISSION FLUID HEAVY DUTY
 TEXAMATIC 4291
 DELO SYN ATF HD
 HAVOLINE MULTI-VEHICLE ATF
 ATF ALLPOWER MULTIVEHICULOS
 ENI ROTRA ATF II E
 MOBIL ATF 320
 MOBIL ATF LT 71141
 FUCHS TITAN ATF 5005
 PENTOSIN ATF 1
 G-BOX ATF DXII
 LOTOS ATF SUPER III G
 FASTROIL ATF 3
 RTO STARMATIC S3
 ATF 700
 INA ATF SUPER
 INA ATF DX III
 INA ATF DX IID
 INA ATF DX IIHH
 ISAMATIC V
 MOL ATF
 MOL ATF SYNT 3H
 MULTITRANS ACV
 LUKOIL ATF SYNTH HD
 TEBOIL FLUID E
 AUXON II E
 ATF XT III FLUID
 PANOLIN ATF SUPER VTX
 HEAVY DUTY SYNTHETIC BLEND ATF
 LUBRAX ATF HD
 GALP TRANSMATIC D III
 ATF DX-3
 TUTELA TRANSMISSION G/E
 TUTELA TRANSMISSION STARFLUID PS
 TUTELA TRANSMISSION ATF 90
 REPSOL MATIC III
 REPSOL MATIC LD ATF
 SHELL SPIRAX S6 ATF VM PLUS
 SPIRAX S4 ATF HDX
 SINOPEC GREATWALL ATF III LD
 SINOPEC GREATWALL ATF HD
 HIPOSPEC ATF IID
 TEDEX ATF III
 TOTAL FLUIDE XLD FE
 ZF-LIFEGUARDFLUID 5

ZF approval number

ZF002128
 ZF002129
 ZF002296
 ZF002297
 ZF002311
 ZF002312
 ZF003609
 ZF000386
 ZF002040
 ZF000101
 ZF001219
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 ZF001664
 ZF001714
 ZF000385
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 ZF003429
 ZF001579
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 ZF000248
 ZF000390
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 ZF001251
 ZF001895
 ZF002268
 ZF001125
 ZF003321
 ZF000048
 ZF001177
 ZF001218
 ZF001236
 ZF002120
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 ZF001667
 ZF000481
 ZF000993
 ZF001599
 ZF000318
 ZF001751
 ZF001371
 ZF001812
 ZF001360
 ZF003348
 ZF003354
 ZF001350
 ZF001464
 ZF001363

Lubricant class 17E**Universal axle and transmission oil****Manufacturer (17E)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 AVIA AG, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CLASS KGAA MBH, HARSEWINKEL/DE
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 EUROL B.V., NJIVERDAL/NL
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GB LUBRICANTS, GATESHEAD/GB
 GS CALTEX CORPORATION, SEOUL/KR
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 HYUNDAI OILBANK CO., LTD., SEOUL/KR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 JCB INDIA, BALLABGARH/IN
 JOHN DEERE, MOLINE, ILLINOIS/US
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 OBNINSKORGSIINTEZ, OBNINSK/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 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
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
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 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SAME DEUTZ FAHR, TREVIGLIO/IT
 SAME DEUTZ FAHR, TREVIGLIO/IT
 SASOL OIL, RANDBURG/ZA
 SASOL OIL, RANDBURG/ZA
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
 SEANON PETROCHEMICAL CO.,LTD., LIUZHOU, GUANGXI/CN
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB

Trade name (17E)

ADDINOL UTTO SAE 10W-30
 ADDINOL UTTO EXTRA (SAE 20W-40)
 ARAL FLUID HGS
 AVIA HYDROFLUID TD
 TECTROL UTTO-ZF
 TECTROL UTTO-HF
 BP VANELLUS AGRISUPER TRANSMISSION 80W
 BP TRACTRAN TF-10
 BP VANELLUS AGRISUPER TRANSMISSION 80W
 FARMER POLY 304
 MOTOREX UTTO CF
 CASTROL AGRISUPER PLUS 80W
 CASTROL AGRISUPER PLUS 10W-30
 CASTROL TRANSMAX AGRISUPER PLUS 80W
 CEPSA AURIGA TE 55 10W-30
 CHEVRON 1000 THF
 TEXTRAN TDH PREMIUM
 CLAAS AGRISHIFT GA 12
 AVENO UTTO
 EUROL HYKROL JD 68
 MOBILFLUID 424
 MOBILFLUID 426
 MOBIL HYDRAUL 56
 FUCHS TITAN UTTO ZF (SAE 20W-40)
 FUCHS TITAN AGRIFARM UTTO MP
 FUCHS TITAN AGRIFARM UTTO MP
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO PREMIUM 10W-30
 GB UNITRANS(R) ZF
 DOOSAN AXLE OIL STANDARD
 GULF MPTF 10W-30
 GULF MPTF 10W-30
 HP SUPERTRAN FM
 XTEER THF 75W-80
 INA TRANSHIDROL JD 50
 INA TRANSHIDROL ZF 20W-40
 INA TRANSHIDROL JD 50
 JCB REAR AXLE OIL
 JOHN DEERE HY-GARD
 Q8 T 2000
 JCB HP GEAR OIL PLUS
 JCB HP GEAR OIL PLUS
 JCB HP GEAR OIL PLUS
 Q8 T 2200
 Q8 T 2200
 LIEBHERR GEAR MF 80W
 LIQUI MOLY SPECIAL UTTO
 MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30
 RW DRIVE FORCE UTTO SAE 10W-30
 LUKOIL VERSO PLUS
 LUKOIL VERSO LVX
 UTTO FLUID 4 D SAE 10W/30
 PANOLIN JD 303
 LUBRAX UNITRATOR SAE 10W-30
 GALP TRALUB 807 S
 MAXITRAX TMS OIL 500
 AMBRA MULTI G (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AMBRA TRX 20W-40 (SAE 20W-40)
 AKCELA TRANSAXLE FLUID 20W-40 (SAE 20W-40)
 AKCELA TRANSAXLE FLUID 20W-40
 AMBRA MULTI G (SAE 10W-30)
 ARBOR MTF (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 ARBOR MTF (SAE 10W-30)
 AMBRA TRX 20W-40 (SAE 20W-40)
 AKCELA TRANSAXLE FLUID 20W-40 (SAE 20W-40)
 AMBRA MULTI G (SAE 10W-30)
 GEAR OIL UTTO SILVER 10W-30
 RAVENOL GETRIEBEOEL UTTO
 REPSOL ORION UTTO
 ROLF UTTO SAE 10W-30
 SDF UTTO
 DF UTTO
 UNIVERSAL TRANSMISSION OIL 68
 SASOL UNIVERSAL TRANSMISSION OIL RS 68
 SAVSOL 315 HAT
 SEANON DEDICATED TRANSMISSION OIL 10W-30
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM

ZF approval number

ZF000509
 ZF001845
 ZF000457
 ZF001811
 ZF001161
 ZF002193
 ZF000210
 ZF000897
 ZF002161
 ZF000590
 ZF001158
 ZF000759
 ZF000950
 ZF002188
 ZF001200
 ZF000100
 ZF000820
 ZF001289
 ZF001687
 ZF001971
 ZF000040
 ZF000061
 ZF003675
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 ZF003446
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 ZF002219
 ZF000400
 ZF000433
 ZF000613
 ZF001502
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 ZF002303
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 ZF000414
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 ZF000658
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 ZF001184
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 ZF001634
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 ZF002151
 ZF002152
 ZF003443
 ZF000958
 ZF001718
 ZF003445
 ZF003375
 ZF002229
 ZF002230
 ZF000707
 ZF001828
 ZF001131
 ZF001959
 ZF000357
 ZF000358

Manufacturer (17E)

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE CUMMINS PVT LIMITED, GURGAON/IN
 VALVOLINE EUROPE, DORDRECHT/NL

Trade name (17E)

SHELL SPIRAX S4 TXM
 SHELL SPIRAX S6 TXME
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SINOPEC GREATWALL UTTO
 SRS HYDROFLUID N
 TOTAL DYNATRANS MPV
 ELF TRACTELF BF 16
 TOTAL DYNATRANS LS 20W-40
 TOTAL DYNATRANS MPWB
 TOTAL DYNATRANS MPX
 UNIL OPAL FLUID G2 VARIO
 UNIL OPAL FLUID MVZ
 VALVOLINE UTF PREMIUM
 UNITRAC 80W

ZF approval number

ZF000359
 ZF001295
 ZF001613
 ZF003325
 ZF000105
 ZF000827
 ZF000540
 ZF001317
 ZF001346
 ZF001539
 ZF002222
 ZF003564
 ZF003565
 ZF002218
 ZF002041

Lubricant class 17F

Manufacturer (17F)

ADDINOL LUBE OIL GMBH, LEUNA/DE

Trade name (17F)

ADDINOL UTTO SPEZIAL

ZF approval number

ZF000635

Lubricant class 17G

Premium universal axle and transmission oil

Manufacturer (17G)

SINOPEC LUBRICANT CO., LTD., BEIJING/CN
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (17G)

SINOPEC GREATWALL HD DRIVE AXLE OIL
ZF-POWERFLUID PLUS
ZF-POWERFLUID C-PLUS

ZF approval number

ZF002162
ZF001021
ZF002087

Lubricant class 17H**Manufacturer (17H)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DAF TRUCKS NV, EINDHOVEN/NL
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FABRIKA MAZIVA FAM AD, KRUSĚVAC/RS
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 NIS AD, NOVI SAD/RS
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 OY TEBOIL AB, HELSINKI/FI
 PANOLIN AG, MADETSWIL/CH
 PETROMIN CORPORATION, JEDDAH/SA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 VALVOLINE EUROPE, DORDRECHT/NL
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (17H)

ADDINOL GETRIEBEÖL GX 80W-90 ML
 ARAL GETRIEBEÖL EP PLUS 80W-90
 TECTROL MULTIGEAR PLUS 8090
 BP ENERGEAR HT 80W-90
 GEAR ZX TP SAE 80W/90
 CASTROL SYNTRAX UNIVERSAL 80W-90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 MULTIGEAR 80W-90
 DELO GEAR TDL 80W-90
 DAF SUPER 80W-90
 MOBILUBE S 80W-90
 MULTIHIPO 80W-90 F PLUS
 AVIATICON FINKOGEAR SUPER 80W-90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 G-TRUCK GL-4/GL-5 80W-90
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 TITANIS SUPER GL-5 80W-90
 GULF GEAR TDL 80W-90
 INA HIPENOL TDL 80W-90
 Q8 GEAR OIL XG SAE 80W-90
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
 NISOTEC HIPO LD ZF SAE 80W-90
 LUKOIL TRANSMISSION UNI 80W-90
 LUKOIL TRANSMISSION UNI 80W-90
 PLATINUM GEAR LL 80W-90
 TEBOIL HYPOID SAE 80W-90
 PANOLIN TOPGEAR 80W/90
 PETROMIN GEAR BOX Z12 SAE 80W90
 SHELL SPIRAX S3 AM 80W-90
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
 SRS GETRIEBEFLUID SML 80W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90
 ZF-ECOFLUID X SAE 80W-90

ZF approval number

ZF000672
 ZF000460
 ZF001160
 ZF000200
 ZF001721
 ZF000227
 ZF002143
 ZF000812
 ZF002273
 ZF002125
 ZF000776
 ZF001456
 ZF002299
 ZF000722
 ZF000554
 ZF000565
 ZF001098
 ZF000780
 ZF000432
 ZF002103
 ZF001323
 ZF001183
 ZF001362
 ZF001768
 ZF002259
 ZF000311
 ZF001970
 ZF000423
 ZF001966
 ZF001292
 ZF003332
 ZF000447
 ZF001869
 ZF001266