



**Transmissions and axles for lift-trucks**

**List of lubricants TE-ML 17**

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**1. Approved lubricant classes**

<b>Product group</b>	<b>Lubricant classes for service fills <sup>(1)</sup></b>
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 <sup>(2)</sup>
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 <sup>(4)</sup>
Electrical power steering EPS3 - Transmission - Wheel hub	low-viscosity grease for gears Total MULTIS EP 00 grease Shell Alvania RL3 <sup>(2)</sup>
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 <sup>(2)</sup>
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 <sup>(3)</sup>
- attached axles	17B / 17H
Axles AT30	17E / 17G
Axles AT35	17E <sup>(5)</sup> / 17F / 17G <sup>(5)</sup>
Axles GPA35	Transmission: 17H; Multidisk brake: 17C

The list of lubricants TE-ML 17, **edition 01.04.2018** 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](http://www.zf.com/lubricants).

**ZF Friedrichshafen AG**  
D-88038 Friedrichshafen  
[www.zf.com/contact](http://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](http://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  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 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  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 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  
 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  
 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 PUBLIC COMPANY LIMITED, BANGKOK/TH  
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES

#### 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-A 80W  
 GEARTEX EP-A 80W-90  
 UNIVERSAL EP SAE 80W  
 GEARTEX EP-4 80W  
 GEARTEX EP-4 80W-90  
 GEAR TDM 80W  
 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  
 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  
 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 80W-85  
 LUKOIL TRANSMISSION TM-4 SAE 80W  
 LUKOIL TRANSMISSION TM-4 80W-90  
 LUKOIL TRANSMISSION TM-4 80W-85  
 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

#### ZF approval number

ZF000630  
 ZF000701  
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 ZF001361  
 ZF001109  
 ZF000631

**Manufacturer (17A)**

REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 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  
 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  
 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)**

REPSOL CARTAGO EPM 90  
 TNK TRANS KP 80W  
 TNK TRANS 80W-90  
 SHELL SPIRAX MA 80 W  
 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  
 FINA PONTONIC N 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**

ZF000633  
 ZF000297  
 ZF001752  
 ZF000325  
 ZF000326  
 ZF001298  
 ZF001299  
 ZF001727  
 ZF001933  
 ZF001936  
 ZF000715  
 ZF002132  
 ZF000440  
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 ZF000446  
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 ZF001914  
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 ZF001772  
 ZF001776  
 ZF002065  
 ZF002067  
 ZF002068  
 ZF000377  
 ZF001051  
 ZF000985  
 ZF000657







**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  
 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  
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX  
 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  
 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  
 CEPSA ATF 3000 S  
 CEPSA 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  
 MOBIL ATF 320  
 MOBIL ATF LT 71141  
 FUCHS TITAN ATF 5005  
 PENTOSIN ATF 1  
 G-BOX ATF DXII  
 LOTOS ATF SUPER III G  
 RTO STARMATIC S3  
 ATF 700  
 INA ATF SUPER  
 INA ATF DX III  
 INA ATF DX IID  
 INA ATF DX IIH  
 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  
 HIOSPEC ATF IID  
 TEDEX ATF III  
 TOTAL FLUIDE XLD FE  
 ZF-LIFEGUARDFLUID 5

**ZF approval number**

ZF002128  
 ZF002129  
 ZF002296  
 ZF002297  
 ZF002311  
 ZF002312  
 ZF000386  
 ZF002040  
 ZF000101  
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 ZF001664  
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 ZF000385  
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 ZF000717  
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 ZF001895  
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 ZF000048  
 ZF001177  
 ZF001218  
 ZF001236  
 ZF002120  
 ZF001425  
 ZF001667  
 ZF000481  
 ZF000993  
 ZF001599  
 ZF000318  
 ZF001751  
 ZF001371  
 ZF001812  
 ZF001360  
 ZF003348  
 ZF003354  
 ZF001350  
 ZF001464  
 ZF001363





**Manufacturer (17E)**

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  
VALVOLINE CUMMINS PVT LIMITED, GURGAON/IN  
VALVOLINE EUROPE, DORDRECHT/NL

**Trade name (17E)**

SINOPEC GREATWALL UTTO  
SRS HYDROFLUID N  
TOTAL DYNATRANS MPV  
ELF TRACTELF BF 16  
TOTAL DYNATRANS LS 20W-40  
TOTAL DYNATRANS MPWB  
TOTAL DYNATRANS MPX  
VALVOLINE UTF PREMIUM  
UNITRAC 80W

**ZF approval number**

ZF000105  
ZF000827  
ZF000540  
ZF001317  
ZF001346  
ZF001539  
ZF002222  
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 VISSSELHÖVEDE/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  
 VIAL OIL LTD., FRYAZINO/RU  
 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  
 CONSOL TRANS LUX 80W-90  
 ZF-ECOFUID 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  
 ZF000587  
 ZF001266