



**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
WG 94 + MT-F 3065 / MT-F 3070 (Shared oil supply transmission and axle)	refer to TE-ML 03 <sup>(3)</sup>
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 28.01.2018** 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 YAG. 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  
 ZF000458  
 ZF001715  
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 ZF000768  
 ZF001666  
 ZF001014  
 ZF001028  
 ZF001399  
 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  
 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  
 ZF000445  
 ZF000446  
 ZF000452  
 ZF001914  
 ZF001915  
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 ZF001772  
 ZF001776  
 ZF002065  
 ZF002067  
 ZF002068  
 ZF000377  
 ZF001051  
 ZF000985  
 ZF000657

**Lubricant class 17B****Manufacturer (17B)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/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  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 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  
 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  
 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  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CLASS KGAA MBH, HARSEWINKEL/DE  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 CYCLON HELLAS SA, ATHENS/GR  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 EKO ABE, ATHENS/GR  
 ENI S.P.A., ROME/IT  
 ENI S.P.A., ROME/IT  
 ENI 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  
 FABRIKA MAZIVA FAM AD, KRUSOVAC/RS  
 FABRIKA MAZIVA FAM AD, KRUSOVAC/RS  
 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  
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 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 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  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN

**Trade name (17B)**

ADDINOL GETRIEBEÖL GH 85W-90  
 ADDINOL GETRIEBEÖL GH 80W-90  
 ADDINOL GETRIEBEÖL GH 75 W 90 SL  
 ARAL GETRIEBEÖL BS 75W-90  
 ARAL GETRIEBEÖL SNA-C 75W-90  
 ARAL GETRIEBEÖL SNA-D 80W-90  
 ARAL GETRIEBEÖL SNA-E 75W-90  
 ARAL GETRIEBEÖL HYP 85W-90  
 PENNASOL HYPOID GEAR OIL GL 5 SAE 90  
 PENNASOL MULTIGRADE HYPOID GEAR OIL GL 5 SAE 80W90  
 SPAREX EP 90 GL-5  
 SPAREX EP 90 GL-5  
 SPAREX EP 80W-90 GL-5  
 EMGARD UAF 4209  
 EMGARD RW-A, SAE 75W-90  
 EMGARD HP 75W-90  
 EMGARD UAF 7105  
 TECTROL MULTIGEAR HYP 90  
 BP ENERGEAR HYPO XL 80W-90  
 BP ENERGEAR SHX-M 75W-90  
 BP ENERGEAR HYPO 90  
 BP ENERGEAR HYPO 80W-90  
 UNISYNT ZX SAE 75W90  
 UNIVERSAL SAE 80W/90  
 GEAR OIL HYPOID SAE80W/90  
 CASTROL AXLE LONG DRAIN 80W-90  
 CASTROL SYNTRAX LONG LIFE 75W-90  
 CASTROL AXLE EPX 90  
 CASTROL AXLE EPX 80W-90  
 SYNTRAX UNIVERSAL PLUS 75W-90  
 CASTROL AXLE EPX 80W-90  
 CASTROL TRANSMAX AXLE LONG LIFE 75W-90  
 CASTROL TRANSMAX UNIVERSAL LL 75W-90  
 CASTROL TRANSMAX AXLE EPX 80W-90  
 CEPSA TRANSMISIONES EP 80W-90  
 CEPSA TRANSMISIONES EP FE+LD 75W-90  
 CEPSA TRANSMISIONES EP 90  
 MAN SUPER AXLE 3343 75W-90  
 MAN SUPER AXLE 342-M2  
 HYPOID LD SAE 85W-90  
 GEARTEK EP-B 85W-90  
 GEARTEX EP-C 80W-90  
 MULTIGEAR S 75W-90  
 MULTIGEAR EP SAE 90  
 MULTIGEAR EP-5 SAE 80W-90  
 DELO GEAR EP-5 SAE 80W-90  
 GEARTEX EP-5 85W-90  
 GEARTEX EP-5 80W-90  
 DELO SYN-TDL 75W-90  
 CLAAS AGRISHIFT MT 80W-90  
 GEAR TXS 75W90  
 GEAR EP GL-5 80W-90  
 TOR SUPER GEAR OIL 80W90  
 TOR UNI GEAR LD 75W90  
 EKO GEAROL-5 80W-90  
 ENI ROTRA MP 80W-90  
 ENI ROTRA LSX 75W-90  
 ENI ROTRA MP 75W-90  
 MOBILUBE 1 SHC 75W-90  
 MOBILUBE HD-A PLUS 80W-90  
 MOBILUBE HD-A 85W-90  
 MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90  
 MOBIL DELVAC 1 GEAR OIL 75W-90  
 MULTIHIPO 75W-90 SINT  
 MULTIHIPO PLUS 80W-90  
 AVIATICON FINKOGEAR PREMIUM 75W-90  
 FUCHS TITAN CYTRAC HSY SAE 75W-90  
 FUCHS TITAN GEAR HYP LD SAE 80W-90  
 FUCHS TITAN SUPERGEAR SAE 80W-90  
 FUCHS TITAN GEAR HYP SAE 90  
 FUCHS TITAN CYTRAC RR SAE 75W-90  
 GEARWAY S5 75W-90  
 GEARWAY G5 80W-90  
 PENTOSIN GETRIEBEÖL O-226 80W-90  
 PENTOSIN G5 85W-90  
 FUCHS TITAN CYTRAC TD SAE 75W-90  
 G-TRUCK GL-5 80W-90  
 GAZPROMNEFT SUPER T-3 SAE 85W90  
 G-BOX GL-4/GL-5 75W-90  
 GAZPROMNEFT GL-5 80W-90  
 GAZPROMNEFT GL-4/GL-5 75W-90  
 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  
 GULF SYNGEAR 75W-90  
 GULF GEAR DB 80W-90

**ZF approval number**

ZF000555  
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 ZF000863  
 ZF000879

## Manufacturer (17B)

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  
 HUILES BERLIET S.A., SAINT-PRIEST/FR  
 IGOL FRANCE, AMIENS/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  
 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  
 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  
 MORRIS LUBRICANTS, SHREWSBURY/GB  
 MOTUL SA, AUBERVILLIERS/FR  
 MOTUL SA, AUBERVILLIERS/FR  
 NIS AD, NOVI SAD/RS  
 NIS AD, NOVI SAD/RS  
 NOVA STILMOIL SPA, MODENA/IT  
 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  
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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  
 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  
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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  
 PRISTA OIL HOLDING EAD, RUSE/BG  
 PRISTA OIL HOLDING EAD, RUSE/BG  
 QATAR LUBRICANTS COMPANY, DOHA/QA  
 RAVENSBERGER 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  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 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

## Trade name (17B)

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  
 RTO HD 80W-90  
 RTO LONGEVIA TC ECO 80W-90  
 RTO LONGEVIA TCX ECO 75W-90  
 SYNTHEGEAR 75W-90  
 HYPOID B 85W-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  
 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-GETRIEBEOEL GL 5 SAE 85W-90  
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90  
 MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 80W-90  
 MOL HYKOMOL K 85W90  
 MOL HYKOMOL ZF 80W90  
 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  
 GEARING PLUS 80W90  
 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 TM-4/5 75W-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  
 TRAXON 80W-90  
 TRAXON SYNTHETIC 75W-90  
 LUBRAX TRM 5 SAE 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  
 PRISTA EP 90  
 PRISTA EP 80W-90  
 QALCO SUPER GEAR OIL ZX 80W-90  
 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  
 TNK TRANS GIPOID 85W-90  
 ROSNEFT KINETIC 80W-90  
 ROSNEFT KINETIC HYPOID 80W-90  
 ROSNEFT KINETIC HYPOID 85W-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

## ZF approval number

ZF000886  
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**Manufacturer (17B)**

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  
 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., WARSZAWA/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  
 YACCO SAS, ST PIERRE LES ELBEUF/FR  
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR  
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR  
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

**Trade name (17B)**

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 AFS  
 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 SYNTHESE 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  
 ELAN TRANS EPR 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  
 BVX 1000 75W-90  
 YORK 896 75W90  
 YORK 793 SAE 80W90  
 DIVINOL MULTI-AXLE 80W90

**ZF approval number**

ZF001262  
 ZF001352  
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 ZF001629  
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 ZF000550  
 ZF001129  
 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  
 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 ROSHFANS, 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  
 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  
 TEDEX ATF III  
 TOTAL FLUIDE XLD FE  
 ZF-LIFEGUARDFLUID 5

**ZF approval number**

ZF002128  
 ZF002129  
 ZF002296  
 ZF002297  
 ZF002311  
 ZF002312  
 ZF000386  
 ZF002040  
 ZF000101  
 ZF001219  
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 ZF000896  
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 ZF001895  
 ZF002268  
 ZF001125  
 ZF003321  
 ZF000048  
 ZF001177  
 ZF001218  
 ZF001236  
 ZF002120  
 ZF001425  
 ZF001667  
 ZF000481  
 ZF000993  
 ZF001599  
 ZF000318  
 ZF001751  
 ZF001371  
 ZF001812  
 ZF001360  
 ZF003348  
 ZF001350  
 ZF001464  
 ZF001363





**Manufacturer (17E)**

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

**Trade name (17E)**

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

**ZF approval number**

ZF000827  
ZF000540  
ZF001317  
ZF001346  
ZF001539  
ZF002222  
ZF000366  
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  
 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  
 MULTIHPO 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  
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 ZF001869  
 ZF000587  
 ZF001266