



**Transmissions and axles for lift-trucks**

**List of lubricants TE-ML 17**

<b>Table of contents</b>	<b>Page</b>
<a href="#">1. Approved lubricant classes</a> .....	1
<a href="#">2. Low temperatures limits</a> .....	2
<a href="#">3. Explanation of footnotes and comments</a> .....	2
<a href="#">4. Lubricant classes and approved trade products</a> .....	3







**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
- 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
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	low-viscosity grease for gears Total MULTIS EP 00
Planetary gear transmissions HFS 502, HFS 507, GP18, GP20	17C
Planetary gear transmissions GP21, GP23, GP25	17C
Planetary gear transmissions GP25 without brake	17A
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
Axles PR61S, PR20MO, PR40MO, P16MO	17B
WG 80, WG 81, WG 85, WG 86	refer to TE-ML 03 <sup>(3)</sup>
- attached axles	17B
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: 17A; Multidisk brake: 17C

The list of lubricants TE-ML 17, **edition 01-JUL-16** 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	Use at outside 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	- 30°C 
17A, 17B, 17E	- SAE 80, 80W-85, 80W-90, 20W-40	- 20°C 
17A, 17B	- SAE 85W-90	- 5°C 
17A, 17B	- SAE 90	0°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)	Trade name (17A)	ZF approval number
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GS 80W	ZF000630
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GS 80W-90	ZF000701
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL EP 80W	ZF000458
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL EP 80W-90	ZF001715
AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE	PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 80W	ZF000678
AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE	PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 90	ZF000679
BAHRAIN PETROLEUM COMPANY, AWALI /BH	SPAREX HP 90 GL-4	ZF001694
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UNIGEAR 80	ZF001162
BELGIN MADENI YAĞLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGEAR EP MB 80	ZF000665
BP PLC., LONDON/GB	BP ENERGEAR EP 80W	ZF000198
BP PLC., LONDON/GB	BP ENERGEAR EP 80W-90	ZF001216
BUCHER AG LANGENTHAL, LANGENTHAL/CH	GEAR OIL EP 80W	ZF000600
CASTROL LTD, LONDON/GB	CASTROL MANUAL EP 80W	ZF000293
CASTROL LTD, LONDON/GB	CASTROL MANUAL EP 80W-90	ZF001096
CEPSA COMERCIAL PETRÓLEO, MADRID/ES	CEPSA TRANSMISIONES 80W-90	ZF000023
CEPSA COMERCIAL PETRÓLEO, MADRID/ES	ERTOIL TRANSMISIONES F SAE 80W	ZF000087
CHEVRON LUBRICANTS, SAN RAMON, CA/US	TRANSLUBE LD SAE 80W	ZF000800
CHEVRON LUBRICANTS, SAN RAMON, CA/US	TRANSLUBE LD SAE 90	ZF000801
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-A 80W	ZF000803
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-A 80W-90	ZF000804
CHEVRON LUBRICANTS, SAN RAMON, CA/US	UNIVERSAL EP SAE 80W	ZF001246
CLAAS KGAA MBH, HARSEWINKEL/DE	CLAAS AGRISHIFT MT 80W-90	ZF002074
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR	GEAR TDM 80W	ZF001039
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR MULTIPURPOSE GEAR OIL SAE 80W90	ZF000622
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE GX-A 80W	ZF000077
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR MP SAE 80	ZF000654
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-BOX EXPERT GL-4 80W-85	ZF000327
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-TRUCK GL-4 80W-90	ZF000525
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-4 80W-85	ZF000948
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-4 80W-90	ZF000949
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 80W	ZF000256
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 80W	ZF000258
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 90	ZF000428
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP MAX 90	ZF000471
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP DURA MAX 80W-90	ZF000684
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 80W	ZF000873
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 90	ZF000874
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 85W-90	ZF000875
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 80W-90	ZF000893
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR MZ 80W-90	ZF001034
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR XP 80W	ZF001150
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR ZX 80W	ZF001849
HARMS MINERALÖLE, PRISDORF/DE	OILFINO VARIUS G 300 SAE 80W-90	ZF000739
HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN	HP GEAR OIL ZFL 80W 90	ZF001526
HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN	HP GEAR OIL ZFL 80W	ZF001527
INA MAZIVA LTD., ZAGREB/HR	INA TRANSMOL HD 80W-90	ZF000425
INA MAZIVA LTD., ZAGREB/HR	INA TRANSMOL DB 80W	ZF000426
INDIAN OIL CORPORATION LTD, MUMBAI/IN	SERVO GEAR ALT 90	ZF001447
INDIAN OIL CORPORATION LTD, MUMBAI/IN	SERVO GEAR HP 80W-90 (T)	ZF001448
INDIAN OIL CORPORATION LTD, MUMBAI/IN	SERVO UNIDRIVE 80W-90	ZF001449
IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR	IPIRANGA ULTRAGEAR MB 80W	ZF001765
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 35 SAE 80W-90	ZF000111
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 35 SAE 80W	ZF000166
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY GETRIEBEÖL GL4 SAE 80W	ZF000694
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 80W	ZF000068
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90	ZF001999
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL 80W	ZF001116
MOTUL SA, AUBERVILLIERS/FR	MOTUL GEAR MB 80W	ZF000395
NESTE MARKKINOINTI OY, ESPOO/FI	NESTE GEAR EP 80W-90	ZF001080
OMV PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR TECH EP 80W	ZF001666
OOO "LLK-INTERNATIONAL", MOSCOW/RU	LUKOIL TRANSMISSION TM-4 80W-85	ZF001231
OOO "LLK-INTERNATIONAL", MOSCOW/RU	LUKOIL TRANSMISSION TM-4 SAE 80W	ZF001431
OOO "LLK-INTERNATIONAL", MOSCOW/RU	LUKOIL TRANSMISSION TM-4 80W-90	ZF001524
OOO "LLK-INTERNATIONAL", MOSCOW/RU	LUKOIL TRANSMISSION TM-4 80W-85	ZF001525
OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR	OPET FULLGEAR EP MT 80W	ZF000636
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR GL-4 80W	ZF000360
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR GL-4 80W-90	ZF000500
PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR	LUBRAX TRM 4 SAE 80W	ZF001476
PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR	LUBRAX TRM 4 SAE 90	ZF001477
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL 80W	ZF000767
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL 80W90	ZF000768
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION STARGEAR (SAE 80W)	ZF001014
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION STARGEAR HD (SAE 80W)	ZF001028
PT. PERTAMINA, JAKARTA/ID	RORED EPA 80W	ZF001399
PTT PUBLIC COMPANY LIMITED, BANGKOK/TH	PTT SUPERTRANS 80W	ZF001361
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4	ZF001109
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EPM 80W	ZF000631
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EPM 90	ZF000633
RN-LUBRICANTS, LLC, MOSCOW/RU	TNK TRANS KP 80W	ZF000297
RN-LUBRICANTS, LLC, MOSCOW/RU	TNK TRANS 80W-90	ZF001752
RN-LUBRICANTS, LLC, MOSCOW/RU	TNK TRANS KP 80W	ZF001785
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX MA 80 W	ZF000325
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX MA 80 W	ZF000326
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 G 80W-90	ZF001298

**Manufacturer (17A)**

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  
 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  
 STATOIL LUBRICANTS, STOCKHOLM/SE  
 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)**

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  
 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  
 GEARWAY G4 80W  
 TOTAL EP 85W-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**

ZF001299  
 ZF001727  
 ZF001933  
 ZF001936  
 ZF000715  
 ZF000440  
 ZF000445  
 ZF000446  
 ZF000452  
 ZF001914  
 ZF001915  
 ZF001916  
 ZF001048  
 ZF001572  
 ZF001772  
 ZF001776  
 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  
 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  
 ARAL AG, BOCHUM/DE  
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE  
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE  
 BAHRAIN PETROLEUM COMPANY, AWALI /BH  
 BAHRAIN PETROLEUM COMPANY, AWALI /BH  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BP PLC., LONDON/GB  
 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  
 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  
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO, 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  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 CYCLON HELLAS SA, ATHENS/GR  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 DEEP OIL TRADING COMPANY LLP, LONDON/GB  
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE  
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS  
 FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS  
 FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 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  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 GERMAN MIRROR LUBRICANTS AND GREASES, SHARJAH/AE  
 GERMAN MIRROR LUBRICANTS AND GREASES, SHARJAH/AE  
 GRUPA LOTOS S.A., GDANSK/PL  
 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 GX 80W-90 ML  
 ADDINOL GETRIEBEÖL GH 75W-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 EP PLUS 80W-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 80W-90 GL-5  
 SPAREX EP 90 GL-5  
 EMGARD UAF 4209  
 EMGARD RW-A, SAE 75W-90  
 EMGARD UAF 7105  
 TECTROL MULTIGEAR HYP 90  
 TECTROL MULTIGEAR PLUS 8090  
 BP ENERGEAR HT 80W-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  
 MOTOREX PENTA TL SAE 75W90  
 GEAR ZX TP SAE 80W/90  
 UNIVERSAL SAE 80W/90  
 GEAR OIL HYPOID SAE80W/90  
 UNIVERSAL CT SAE 80W/90  
 CASTROL SYNTRAX UNIVERSAL 80W-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  
 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  
 GEARTEX EP-B 85W-90  
 GEARTEX EP-C 80W-90  
 MULTIGEAR 80W-90  
 MULTIGEAR S 75W-90  
 RPM UNIVERSAL GEAR LUBRICANT SAE 80W-90  
 MULTIGEAR EP SAE 90  
 GEAR TXS 75W90  
 GEAR TDS 75W90  
 GEAR EP GL-5 80W-90  
 TOR SUPER GEAR OIL 80W90  
 TOR UNI GEAR LD 75W90  
 DRIVE RW FORCE S GL-5 75W-90  
 PENTOSIN GETRIEBEÖL O-226 80W-90  
 PENTOSIN G5 85W-90  
 MOBILUBE 1 SHC 75W-90  
 MOBILUBE HD-A PLUS 80W-90  
 MOBILUBE HD-A 85W-90  
 MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90  
 MOBILUBE S 80W-90  
 MOBIL DELVAC 1 GEAR OIL 75W-90  
 MULTIHPO 75W-90 SINT  
 MULTIHPO PLUS 80W-90  
 MULTIHPO 80W-90 F PLUS  
 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 SUPERGEAR MC SAE 80W-90  
 FUCHS TITAN CYTRAC RR SAE 75W-90  
 G-TRUCK GL-4/GL-5 80W-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  
 OEST SYNTH GETRIEBEÖL SAE 75W-90  
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5  
 OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90  
 MIRR GEAR OIL API GL-5 SAE 80W90  
 MIRR GEAR OIL API GL-5 SAE 85W90  
 TITANIS SUPER GL-5 75W/90  
 LOTOS TITANIS GL-5 80W-90  
 TITANIS SUPER GL-5 80W-90  
 GULF GEAR TDL 80W-90  
 GULF SYNGEAR 75W-90

## ZF approval number

ZF000555  
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 ZF001098  
 ZF000780  
 ZF000863

**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  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 HARMS MINERALÖLE, PRISDORF/DE  
 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  
 IGOL FRANCE, AMIENS/FR  
 INA MAZIVA LTD., ZAGREB/HR  
 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  
 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  
 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  
 NIS AD, NOVI SAD/RS  
 NOVA STILLMOIL SPA, MODENA/IT  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 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  
 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  
 OY TEBOil AB, HELSINKI/FI  
 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  
 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  
 PETROMIN CORPORATION, JEDDAH/SA  
 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  
 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

**Trade name (17B)**

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  
 OILFINO VARIUS G 500 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  
 GEAR M 80W-90  
 HYPOID B 85W-90  
 INA HIPENOL GTL DB 90  
 INA HIPENOL GTL HD 80W-90  
 INA HIPENOL TDL 80W-90  
 INA HIPENOL SHD 75W-90  
 Q8 GEAR OIL XG SAE 80W-90  
 Q8 T 55 SAE 80W-90  
 Q8 T 55 SAE 90  
 Q8 T 65 SAE 75W-90  
 Q8 UNIGEAR GL-5 SAE 75W-90  
 Q8 TRANS XGS 75W-90  
 LIEBHERR GEAR HYPOID 90 EP  
 LIEBHERR SYNTOGear PLUS 75W-90  
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90  
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90  
 LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)  
 MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 85W-90  
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-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 LD ZF SAE 80W-90  
 NISOTEC HIPO SINT TDL SAE 75W-90  
 GEARING PLUS 80W90  
 MAXIGEAR EP-X 80W-90  
 MAXIGEAR D 75W-90  
 MAXIGEAR TECH EP-X 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 80W-90  
 LUKOIL TRANSMISSION UNI S 75W-90  
 OPET FULLGEAR HYP EP MT 90  
 PLATINUM GEAR LL 80W-90  
 PLATINUM GEAR GL-5 80W-90  
 TEBOil HYPOID SAE 75W-90  
 TEBOil HYPOID SAE 80W-90  
 GLOBAL MULTIGEAR TS SAE 75W/90  
 PANOLIN TOPGEAR 80W/90  
 PANOLIN SUPER DUTY SYNTH 75W/90  
 PANOLIN SUPER DUTY 90  
 PANOLIN SUPER DUTY 80W/90  
 TRAXON XL SYNTHETIC BLEND 75W-90  
 TRAXON 80W-90  
 LUBRAX TRM 5 SAE 90  
 GALP TRANSOIL HP 80W90  
 GALP TRANSVEX TDL 75W90  
 GALP TRANSOIL HP XT 80W90  
 PETROMIN GEAR BOX Z12 SAE 80W90  
 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  
 RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5  
 REPSOL CARTAGO EP SAE 90  
 REPSOL CARTAGO FE LD 75W90  
 REPSOL CARTAGO EP MULTIGRADO SAE 80W90

**ZF approval number**

ZF000879  
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 ZF000623

**Manufacturer (17B)**

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  
 ROSTSELMASH HARVESTERS LTD, ROSTOV-ON-DON/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  
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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  
 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  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 STATOIL LUBRICANTS, STOCKHOLM/SE  
 STATOIL LUBRICANTS, STOCKHOLM/SE  
 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  
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 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 UNIL OPAL, SAUMUR/FR  
 VALVOLINE AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU  
 VALVOLINE EMEA, DORDRECHT/NL  
 VALVOLINE EMEA, DORDRECHT/NL  
 VALVOLINE EMEA, DORDRECHT/NL  
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB  
 VIAL OIL LTD., FRYAZINO/RU  
 VIAL OIL LTD., FRYAZINO/RU  
 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  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (17B)**

REPSOL CARTAGO LD 80W90  
 TNK TRANS GIPOID 85W-90  
 TNK TRANS GIPOID 85W-90  
 TNK TRANS GIPOID 80W-90  
 ROSNEFT KINETIC 80W-90  
 ROSTSELMASH G-PROFI GRIP API GL-5 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  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX S3 AM 80W-90  
 SHELL SPIRAX S4 AT 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)  
 SINOPEC GREATWALL VT 75W/90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 90  
 SRS GETRIEBEFLUID SML 80W-90  
 SRS GETRIEBEFLUID AFS  
 SRS GETRIEBEFLUID SXL 75W-90  
 SRS WIOLIN HL 5 SAE 80W-90  
 SRS WIOLIN HL 5 SAE 85W-90  
 GEARWAY S5 75W-90  
 GEARWAY G5 80W-90  
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90  
 TEXSA GEAR MULTI GL-5 90  
 TEXSA GEAR MULTI GL-5 80W90  
 TOTAL TRANSMISSION XPM 80W-90  
 TOTAL TRANSMISSION SYN FE 75W-90  
 FINA PONTONIC FDL 75W-90  
 ELF TRANSELF SYNTHESSE FE 75W-90  
 TOTAL EP-B 80W-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  
 FINA PONTONIC MP 80W-90  
 ELF TRANSELF TYPE B 80W-90  
 ELAN TRANS EPR 80W-90  
 GEAR ZF 80W90  
 GEAR OIL GL-5 XTREME SAE 80W-90  
 VALVOLINE HEAVY DUTY TDL PRO 75W-90  
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD  
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90  
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90  
 CONSOL TRANS LUX 80W-90  
 CONSOL TRANS LUX 75W-90  
 BVX 1000 75W-90  
 YORK 896 75W90  
 YORK 793 SAE 80W90  
 DIVINOL MULTI-AXLE 80W90  
 ZF-ECOFLUID X SAE 80W-90

**ZF approval number**

ZF001141  
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 ZF001129  
 ZF001684  
 ZF001266

**Lubricant class 17C****Manufacturer (17C)**

CEPSA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO, 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  
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 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  
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR  
 MOL-LUB KFT, ALMASFUZITO/HU  
 MOL-LUB KFT, ALMASFUZITO/HU  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 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  
 PETROGAL S.A., LISBOA/PT  
 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  
 TEDEX S.A., WARSZAWA/PL  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (17C)**

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  
 PENTOSIN ATF 1  
 MOBIL ATF 320  
 MOBIL ATF LT 71141  
 FUCHS TITAN ATF 5005  
 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  
 ISAMATIC V  
 MOL ATF  
 MOL ATF SYNT 3H  
 ATF DX-3  
 LUKOIL ATF SYNTH HD  
 AUXON II E  
 ATF XT III FLUID  
 PANOLIN ATF SUPER VTX  
 HEAVY DUTY SYNTHETIC BLEND ATF  
 GALP TRANSMATIC D III  
 TUTELA TRANSMISSION GI/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  
 TEDEX ATF III  
 TOTAL FLUIDE XLD FE  
 ZF-LIFEGUARDFLUID 5

**ZF approval number**

ZF000386  
 ZF002040  
 ZF000101  
 ZF001219  
 ZF001574  
 ZF001664  
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 ZF000318  
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 ZF001371  
 ZF001812  
 ZF001360  
 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 MINERALÖL-AG, MÜNCHEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 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  
 CATERPILLAR, INC., MOSSVILLE/US  
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHS INC, INVER GROVE HEIGHTS/US  
 CLAAS KGAA MBH, HARSEWINKEL/DE  
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE  
 EUROL B.V., NJIVERDAL/NL  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GB LUBRICANTS, GATESHEAD/GB  
 GS CALTEX CORPORATION, SEOUL/KR  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 IGOL FRANCE, AMIENS/FR  
 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  
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PANOLIN AG, MADETSWIL/CH  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROGAL S.A., LISBOA/PT  
 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  
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 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  
 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  
 UNIL OPAL, SAUMUR/FR  
 VALVOLINE EMEA, DORDRECHT/NL

**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 AGRI SUPER TRANSMISSION 80W  
 BP TRACTRAN TF-10  
 FARMER POLY 304  
 MOTOREX UTTO CF  
 CASTROL AGRI TRANS PLUS CVT 80W  
 CASTROL AGRI TRANS PLUS 80W  
 CASTROL AGRI TRANS PLUS 10W-30  
 CAT MULTIPURPOSE TRACTOR OIL  
 CEPESA AURIGA TE 55 10W-30  
 CHEVRON 1000 THF  
 TEXTRAN TDH PREMIUM  
 QWIKLIFT HTB  
 CLAAS AGRISHIFT GA 12  
 AVENO UTTO  
 EUROL HYKROL JD 68  
 MOBILFLUID 424  
 MOBILFLUID 426  
 FUCHS TITAN UTTO ZF (SAE 20W-40)  
 FUCHS TITAN AGRIFARM UTTO MP  
 G-SPECIAL UTTO 10W-30  
 GB UNITRANS(R) ZF  
 DOOSAN AXLE OIL STANDARD  
 GULF MPTF 10W-30  
 GULF MPTF 10W-30  
 TICMA FLUID MU XTREM  
 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  
 Q8 T 2200  
 LIEBHERR GEAR MF 80W  
 LIQUI MOLY SPECIAL UTTO  
 MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30  
 MAXITRAK TMS OIL 500  
 UTTO FLUID 4 D SAE 10W/30  
 PANOLIN JD 303  
 LUBRAX UNITRACTOR SAE 10W-30  
 GALP TRALUB 807 S  
 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)  
 AMBRA MULTI G (SAE 10W-30)  
 AMBRA MULTI G (SAE 10W-30)  
 AKCELA NEXPLORE (SAE 10W-30)  
 AKCELA NEXPLORE (SAE 10W-30)  
 AMBRA MULTI G (SAE 10W-30)  
 GEAR OIL UTTO SILVER 10W-30  
 RAVENOL GETRIEBEOEL 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  
 SHELL SPIRAX S4 TXM  
 SHELL SPIRAX S6 TXME  
 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  
 FLUID VO  
 UNITRAC 80W

**ZF approval number**

ZF000509  
 ZF001845  
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 ZF000366  
 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)**

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE  
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (17G)**

ZF-POWERFLUID PLUS  
ZF-POWERFLUID C-PLUS

**ZF approval number**

ZF001021  
ZF002087