



**Tractor axles, transmissions for harvesters and final drives**

**List of lubricants TE-ML 21**

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**1. Approved lubricant classes**

<b>Product groups</b>	<b>Lubricant classes <sup>(1)</sup></b>	
	<b>First fill <sup>(2)</sup></b>	<b>Service fills <sup>(3)</sup></b>
<b>Axles</b> APL-300, APL-700 AS-2000, AS-3000	21C	21C / 21F / 21G
TerraSteerAxle (TSA), TerraDriveAxle (TDA)	21C / 21F / 21G	21C / 21F / 21G
Kintra KC	21A / 21C / 21F / 21G	21A / 21C / 21F / 21G
<b>Transmissions for harvesters</b> 2MD40 3MD30, 3MD35, 3MD40	21A	21A
<b>ZF-half-shafts</b> (planetary final drives) for tractor transmissions Eccom, Terramatic, Terrapower, T-7000 and S-Matic	21A / 21C / 21G	21A / 21C / 21G
<b>Final drives for harvesters</b> S-800, S-950, S-1050, S-1250	21A	21A

The list of lubricants TE-ML 21, **edition 01.07.2018** 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).

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D-88038 Friedrichshafen  
[www.zf.com/contact](http://www.zf.com/contact)

## 2. Oil change intervals








### 2.1 Initial oil change interval

Lubricant classes	21A	21C	21F / 21G
<b>Product groups</b>	<b>Initial oil change interval</b>		
<b>Axles APL, AS, TSA, TDA</b>	-	1000 h	1000 h
<b>Axles Kintra KC</b>	100 h	100 h	100 h
<b>Transmissions for harvesters</b>	500 h	-	-
<b>ZF-half-shafts</b>	500 h	500 h	500 h
<b>Final drives for harvesters</b>	500 h	-	-

### 2.2 Subsequent oil change interval

Lubricant classes	21A	21C	21F / 21G
<b>Product groups</b>	<b>Subsequent oil change interval</b>		
<b>Axles APL, AS, TSA, TDA</b>	-	1000 h	1500 h
<b>Axles Kintra KC</b>	500 h	500 h	500 h
<b>Transmissions for harvesters</b>	1000 h	-	-
<b>ZF-half-shafts</b>	1000 h	1000 h	1000 h
<b>Final drives for harvesters</b>	1000 h	-	-

## 3. Hydraulic fluids

Product group	Lubricant classes for service fills <sup>(1)</sup>	Use at outside temperatures above
Brake hydraulics, hydraulic differential lock (DHL) and steering	21L	- 40°C 
	lubricants in accordance with JDM J20D	- 40°C 
	21F (only lubricants in accordance with JDM J20C), 21G	- 30°C 
	21K	- 30°C 
	21M (ISO VG 32)	- 40°C  + 20°C
	21M (ISO VG 46)	- 10°C 
	21M (ISO VG 68)	- 5°C 

## 4. Greasing points

Product groups	Lubricating grease
All	Lithium saponified multipurpose grease of NLGI class 2 which is mixable with mineral oil (grease code KP2K-30 in acc. with DIN 51825 or ISO-L-XCCHB2 in accordance with ISO 6743-9). Lubricating interval acc. to corresponding lubricating and maintenance specifications.

## 5. Explanation of footnotes and comments

### Footnotes

- (1) **Refer to the following pages for approved commercial products.**
- (2) First filling: The lubricant classes listed are compulsory for initial fillings of transmissions as well as fillings during transmission break-in (under 1,000h).
- (3) Service filling: The lubricant classes listed are compulsory for service oil changes according to the oil-change intervals mentioned under Section 2.2.

### Comments

Additives of any kind added **later** to the oil change the oil in a manner that is unpredictable, and they are therefore not permitted. No liability of any kind will be accepted by ZF for any damage resulting from the use of such additives.

**6. Lubricant classes and approved trade products****Lubricant class 21A****Gear oil**

Viscosity grades: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

**Manufacturer (21A)****Trade name (21A)****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 GX 80W-90 ML	ZF000672
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 75 W 90 SL	ZF002260
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 EP PLUS 80W-90	ZF000460
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL HYP 85W-90	ZF000464
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL HYP 85W-140	ZF000930
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
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 85W-140 GL-5	ZF002318
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
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR PLUS 8090	ZF001160
BP PLC., LONDON/GB	BP ENERGEAR HT 80W-90	ZF000200
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 85W-140	ZF000865
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	GEAR ZX TP SAE 80W/90	ZF001721
BUCHER AG LANGENTHAL, LANGENTHAL/CH	GEAR ZX TP SAE 80W/140	ZF001722
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
CASTROL LTD, LONDON/GB	CASTROL SYNTRAX UNIVERSAL 80W-90	ZF000227
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 85W-140	ZF000910
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 80W-90	ZF002143
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX UNIVERSAL LL 75W-90	ZF002144
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 85W-140	ZF002145
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 85W-140	ZF000085
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
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	GEARTEX EP-C 85W-140	ZF000808
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR 80W-90	ZF000812
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR S 75W-90	ZF000815
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR PREMIUM EP SAE 85W-140	ZF001196
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP SAE 90	ZF001243
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR S 75W-140	ZF001638
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP-5 SAE 80W-90	ZF002137
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 85W-140	ZF002254
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 80W-90	ZF002270
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR TDL 80W-90	ZF002273
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	GEARTEX EP-5 85W-140	ZF002280
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-TDL 75W-90	ZF003353
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
DAF TRUCKS NV, EINDHOVEN/NL	DAF SUPER 80W-90	ZF002125
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR SUPER GEAR OIL 80W90	ZF000963
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR UNI GEAR LD 75W90	ZF000964
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR UNI GEAR 75W110 LD	ZF000968
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 MP 85W-140	ZF000856
ENI S.P.A., ROME/IT	ENI ROTRA LSX 75W-90	ZF000860



**Manufacturer (21A)**

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 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  
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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  
OY TEBOIL AB, HELSINKI/FI  
PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
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  
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  
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PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA  
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  
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  
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  
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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  
QATAR LUBRICANTS COMPANY, DOHA/QA  
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
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  
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

**Trade name (21A)**

EP 85W-140  
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  
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 TM-5 SAE 85W-140  
LUKOIL TRANSMISSION B 85W-90  
LUKOIL TRANSMISSION UNI 80W-90  
LUKOIL TRANSMISSION UNI S 75W-90  
LUKOIL TRANSMISSION UNI 80W-90  
LUKOIL TRANSMISSION MN 75W-90  
LUKOIL TRANSMISSION GL-5 80W-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  
TEBOIL HYPOID SAE 80W-140  
TEBOIL HYPOID SAE 80W-140  
GLOBAL MULTIGEAR TS SAE 75W/90  
GLOBAL GEAR SA SAE 85W-140  
PANOLIN TOPGEAR 80W/90  
PANOLIN SUPER DUTY SYNTH 75W/140  
PANOLIN SUPER DUTY SYNTH 75W/90  
PANOLIN SUPER DUTY 90  
PANOLIN SUPER DUTY 80W/90  
PAZ GEAR LD 80W-90  
TRAXON 80W-90  
TRAXON 85W-140  
TRAXON SYNTHETIC 75W-90  
TRAXON XL SYNTHETIC BLEND 80W-140  
TRAXON 80W-90  
TRAXON 85W-140  
LUBRAX TRM 5 SAE 85W-140  
LUBRAX TRM 5 SAE 90  
GALP TRANSOIL HP 80W90  
GALP TRANSOIL HP 85W140  
GALP TRANSVEX TDL 85W140  
GALP TRANSVEX TDL 75W90  
GALP TRANSOIL HP XT 80W90  
MAXIGEAR EP-X 80W-90  
MAXIGEAR D 75W-90  
MAXIGEAR TECH EP-X 80W-90  
PETROMIN GEAR BOX Z12 SAE 80W90  
ARBOR TRW 90 (SAE 80W-90)  
ARBOR TRW 140 (SAE 85W-140)  
AMBRA HYPOIDE 90 (SAE 80W-90)  
AKCELA GEAR 135H EP (SAE 80W-90)  
AKROS GEAR EP 90 (SAE 80W-90)  
AMBRA HYPOIDE 140 (SAE 85W-140)  
AKCELA GEAR 135H EP (SAE 85W-140)  
TUTELA TRANSMISSION W90/LA (SAE 80W-90)  
TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)  
TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)  
TUTELA TRANSMISSION X-ROAD (75W-140)  
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 85W-140  
QALCO SUPER GEAR OIL ZX 80W-90  
RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5  
RAVENOL TDG 75W-110  
REPSOL CARTAGO EP SAE 90  
REPSOL CARTAGO FE LD 75W90  
REPSOL CARTAGO EP MULTIGRADO SAE 80W90  
REPSOL CARTAGO EP MULTIGRADO SAE 85W140  
REPSOL CARTAGO LD 80W90  
REPSOL CARTAGO LD 85W140  
TNK TRANS GIPOID 85W-90  
ROSNEFT KINETIC HYPOID 80W-90  
ROSNEFT KINETIC HYPOID 85W-140  
ROSNEFT KINETIC HYPOID 85W-90  
SYN GEAR DIFFERENTIAL OIL 75W-90  
SHELL SPIRAX S6 AXME 75W-90  
SHELL SPIRAX S6 AXME 75W-140  
SHELL SPIRAX MB 90  
SHELL SPIRAX MB 90

**ZF approval number**

ZF001670  
ZF000398  
ZF000825  
ZF000490  
ZF001362  
ZF002038  
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ZF000741  
ZF001013  
ZF001015  
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ZF000007  
ZF000008  
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ZF000667  
ZF000839  
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ZF000322  
ZF000323

**Manufacturer (21A)**

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  
 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  
 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  
 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  
 TEDEX S.A., WARSZAWA/PL  
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR  
 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  
 UNIL OPAL, SAUMUR/FR  
 VALVOLINE EUROPE, DORDRECHT/NL  
 VALVOLINE EUROPE, DORDRECHT/NL  
 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  
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR  
 YPF S.A., BUENOS AIRES/AR  
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (21A)**

SHELL SPIRAX S3 AS 80W-140  
 SHELL SPIRAX S3 AX 85W-140  
 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 HD 80W-90  
 SHELL SPIRAX HD 80W-90  
 SHELL SPIRAX HD 80W-90  
 SHELL SPIRAX S 75W-140  
 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  
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 85W-140  
 SRS WIOLIN HYPOID-GETRIEBEÖL 90  
 SRS GETRIEBEFLUID SML 80W-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 85W140  
 TEXSA GEAR MULTI GL-5 90  
 TEXSA GEAR MULTI GL-5 80W90  
 ELF TRANSELF SYNTHESE FE 75W-90  
 TOTAL TRANSMISSION DUAL 9 FE 75W-90  
 TOTAL TRANSMISSION AXLE 7 85W-90  
 TOTAL TRANSMISSION AXLE 8 FE 80W-140  
 TOTAL TRANSMISSION AXLE 9 80W-90  
 TOTAL TRANSMISSION AXLE 7 85W-140  
 ELF TRANSELF TYPE B 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  
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90  
 VALVOLINE HEAVY DUTY AXLE OIL PRO 75W-140  
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90  
 BVX 1000 75W-90  
 YORK 896 75W90  
 YORK 793 SAE 80W90  
 YORK 793 SAE 85W140  
 HIPOIDAL SUPER S 75W-90  
 DIVINOL MULTI-AXLE 80W90  
 ZF-ECOFLUID X SAE 80W-90

**ZF approval number**

ZF000479  
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 ZF003384  
 ZF001684  
 ZF001266

**Lubricant class 21C**

Gear oil with limited-slip-additives

Viscosity grades: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

**Manufacturer (21C)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ADDINOL LUBE OIL GMBH, LEUNA/DE  
 AGCO GMBH, MARKTOBERDORF/DE  
 AGCO GMBH, MARKTOBERDORF/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR  
 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  
 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  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 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  
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN  
 INA MAZIVA LTD., ZAGREB/HR  
 INDIAN OIL CORPORATION LTD, MUMBAI/IN  
 INDIAN OIL CORPORATION LTD, MUMBAI/IN  
 JOHN DEERE, MOLINE, ILLINOIS/US  
 JOHN DEERE, MOLINE, ILLINOIS/US  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MOL-LUB KFT, ALMASFUZITO/HU  
 MOL-LUB KFT, ALMASFUZITO/HU  
 MORRIS LUBRICANTS, SHREWSBURY/GB  
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US  
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US  
 NOVA STILMOIL SPA, MODENA/IT  
 OILFINO MINERALÖL GMBH, PRISDORF/DE  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 OY TEBOIL AB, HELSINKI/FI  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PANOLIN AG, MADETSWIL/CH  
 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  
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY  
 PHI OIL GMBH, ST. GEORGEN/AT  
 PTT PUBLIC COMPANY LIMITED, BANGKOK/TH  
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 SASOL OIL, RANDBURG/ZA  
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN  
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN  
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB  
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN  
 SK LUBRICANTS, SEOUL/KR  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR

**Trade name (21C)**

ADDINOL GETRIEBEÖL GH 85W-90 LS  
 ADDINOL GETRIEBEÖL GH 80W-90 LS  
 VALTRA AXLE LS 85W-90  
 FENDT SUPER TRANS LS 85W-90  
 ARAL GETRIEBEÖL BS-LSX 75W-140  
 ARAL GETRIEBEÖL HYP LS 85W-90  
 PENNASOL LIMITED SLIP HYPOID GEAR OIL LS SAE 90  
 TECTROL MULTIGEAR LS 90  
 BELGEAR LS 85W90  
 MOTOREX UNIVERSAL LS SAE 90  
 CASTROL SYNTRAX LIMITED SLIP 75W-140  
 CASTROL AXLE Z LIMITED SLIP 90  
 CASTROL AXLE Z LIMITED SLIP 85W-90  
 CASTROL TRANSMAX LIMITED SLIP LL 75W-140  
 CASTROL TRANSMAX LIMITED SLIP Z 85W-90  
 CEPSA AURIGA LS PLUS 80W-90  
 GEAR OIL ZF SAE 80W-90  
 GEARTEX LS 80W-90  
 GEARTEX LS 85W-90  
 GEARTEX LS SAE 85W-140  
 DELO SYN-GEAR XS 75W-140  
 CLAAS AGRISHIFT BLS 90  
 MOBILUBE LS 85W-90  
 GEARLUBE VS 500  
 AVIATICON HYPOID LS 90  
 FUCHS TITAN GEAR LS SAE 90  
 G-TRUCK LS 80W-90  
 G-TRUCK LS 85W-140  
 G-TRUCK LS 85W-90  
 OEST GETRIEBEÖL HYPOID LS 90  
 LOTOS TITANIS LS GL-5 80W-90  
 LOTOS TITANIS LS GL-5 SAE 85W-140  
 DOOSAN LS GEAR OIL 80W90  
 GULF GEAR LS 90  
 HP GEAR OIL ZFL 80W 90 LS  
 INA HIPENOL GTL LS 90  
 SERVO GEAR SUPER LS 90  
 SERVO GEAR SUPER LS 80W-90  
 JOHN DEERE GL-5 GEAR LUBRICANT W/LS ADD 80W-90  
 JOHN DEERE GL-5 GEAR LUBRICANT W/LS ADD 85W-140  
 Q8 T 45 LS SAE 90  
 LIEBHERR GEAR BASIC 90 LS  
 LIQUI MOLY HYPOID-GETRIEBEÖL PLUS GL 5 LS 85W-90  
 MEGOL HYPOID-GETRIEBEÖL AXLE LS SAE 85W-90  
 MOL HYKOMOL LS 85W140  
 MOL HYKOMOL LS 85W90  
 TERRAIN LS 80W-90  
 POSI-GRIP JDZF 80W90  
 POSI-GRIP JDZF 85W140  
 GEARING WONDER LS SAE 85W90  
 OILFINO VARIUS G 400LS 85W-90  
 LUKOIL TRANSMISSION LS 85W-90  
 LUKOIL TRANSMISSION LS 80W-90  
 PLATINUM GEAR LS 80W-90  
 PLATINUM AGRO LS 80W-90  
 PLATINUM GEAR LS 85W-140  
 TEBOIL HYPOID LS 80W-90  
 UNIVERSAL GEAR EP LS SAE 85W90  
 PANOLIN SUPER DUTY LS 90  
 GALP TRANSOIL HP LS 90  
 MAXIGEAR EP-X 85W-90LS  
 AMBRA AXF 80W-90 (SAE 80W-90)  
 AKCELA AXLEPOWER (SAE 80W-90)  
 AKROS AXLEGEAR 80W-90 (SAE 80W-90)  
 TUTELA TRANSMISSION W90/LS (SAE 80W-90)  
 ARBOR TTF (SAE 80W-90)  
 SUPERGEAR BRONZE 85W90 LS  
 PTT LIMITED SLIP (SAE 80W-90)  
 RAVENOL SPERRDIFF.-GETR.-OEL LS 90  
 REPSOL CARTAGO EP AUTOBLOCANTE SAE 80W90  
 TNK TRANS GIPOID LS 80W-90  
 TNK TRANS GIPOID LS 85W-90  
 SASOL DIFFERENTIAL OIL LIMITED SLIP 80W-90  
 SAVSOL AUTOGEAR 85W140 LIMITED SLIP GL5  
 SAVSOL AUTOGEAR 90 LIMITED SLIP GL-5  
 SHELL SPIRAX S3 ALS 80W-90  
 SINOPEC GREATWALL ZLS GL-5 85W/90  
 SK ZIC G-5 LSD 80W-90  
 SRS WIOLIN RSH  
 TOTAL DYNATRANS DA 80W-90  
 TOTAL DYNATRANS DA 85W-140  
 TOTAL DYNATRANS LS 80W-90

**ZF approval number**

ZF000629  
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 ZF001545



**Manufacturer (21C)**

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  
YACCO SAS, ST PIERRE LES ELBEUF/FR

**Trade name (21C)**

ELF TRACTELF BLS 80W-90  
GULF LS REAR AXLE 80W-90  
TOTAL DYNATRANS DA 80W-90  
GEAR AB-EP 85W90  
GEAR DURA 80W90 LS  
VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LS  
BVX LS 200 80W-90

**ZF approval number**

ZF001546  
ZF001548  
ZF002309  
ZF000526  
ZF001465  
ZF001996  
ZF001614

**Lubricant class 21F**  
 Universal axle and transmission oil

**Manufacturer (21F)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ADDINOL LUBE OIL GMBH, LEUNA/DE  
 AGCO GMBH, MARKTBERGERDORF/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  
 CATERPILLAR, INC., MOSSVILLE/US  
 CEPSPA 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  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 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  
 HYUNDAI OILBANK CO., LTD., SEOUL/KR  
 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  
 OBNINSKORGSINTEZ, OBNINSK/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/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  
 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  
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 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  
 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., LUZHOU, GUANGXI/CHN

**Trade name (21F)**

ADDINOL UTTO SAE 10W-30  
 ADDINOL UTTO EXTRA (SAE 20W-40)  
 VALTRA TRANSMISSION XT60  
 ARAL FLUID HGS  
 AVIA HYDROFLUID TD  
 TECTROL UTTO-ZF  
 TECTROL UTTO-HF  
 BP VANELLUS AGRI SUPER TRANSMISSION 80W  
 BP TRACTRAN TF-10  
 BP VANELLUS AGRI SUPER TRANSMISSION 80W  
 FARMER POLY 304  
 MOTOREX UTTO CF  
 CASTROL AGRI TRANS PLUS 80W  
 CASTROL AGRI TRANS PLUS 10W-30  
 CASTROL TRANSMAX AGRI TRANS PLUS 80W  
 CAT MULTIPURPOSE TRACTOR OIL  
 CEPASA 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  
 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 PREMIUM 10W-30  
 GB UNITRANS(R) ZF  
 DOOSAN AXLE OIL STANDARD  
 GULF MPTF 10W-30  
 GULF MPTF 10W-30  
 XTEER THF 75W-80  
 TICMA FLUID MU XTREM  
 INA TRANSHIDROL JD 50  
 INA TRANSHIDROL ZF 20W-40  
 INA TRANSHIDROL JD 50  
 INA TRANSHIDROL JD 50  
 JCB REAR AXLE OIL  
 JOHN DEERE HY-GARD  
 Q8 T 2000  
 Q8 T 2200  
 JCB HP GEAR OIL PLUS  
 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  
 OPET FULLGEAR FD 80W-140  
 UTTO FLUID 4 D SAE 10W/30  
 PANOLIN JD 303  
 LUBRAX UNITRACTOR SAE 10W-30  
 GALP TRALUB 807 S  
 MAXITRAK 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)  
 AMBRA TRX 80W-140 (SAE 80W-140)  
 ARBOR TRW 140 SPECIAL (SAE 80W-140)  
 AKCELA TRANSAXLE FLUID 20W-40 (SAE 20W-40)  
 AKCELA TRANSAXLE FLUID 80W-140 (SAE 80W-140)  
 AKCELA TRANSAXLE FLUID 80W-140 (SAE 80W-140)  
 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 80W-140 (SAE 80W-140)  
 AKCELA TRANSAXLE FLUID 80W-140 (SAE 80W-140)  
 AMBRA TRX 20W-40 (SAE 20W-40)  
 AKCELA TRANSAXLE FLUID 20W-40 (SAE 20W-40)  
 GEAR OIL UTTO SILVER 10W-30  
 RAVENOL GETRIEBEOEL 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

**ZF approval number**

ZF000509  
 ZF001845  
 ZF003465  
 ZF000457  
 ZF001811  
 ZF001161  
 ZF002193  
 ZF000210  
 ZF000897  
 ZF002161  
 ZF000590  
 ZF001158  
 ZF000759  
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 ZF002188  
 ZF000834  
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 ZF000820  
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 ZF001687  
 ZF001971  
 ZF000040  
 ZF000061  
 ZF002183  
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 ZF002211  
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 ZF001995  
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 ZF000958  
 ZF001718  
 ZF003375  
 ZF002229  
 ZF002230  
 ZF000707  
 ZF001828  
 ZF001131  
 ZF001959

**Manufacturer (21F)**

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  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 VALVOLINE CUMMINS PVT LIMITED, GURGAON/IN  
 VALVOLINE EUROPE, DORDRECHT/NL

**Trade name (21F)**

SHELL SPIRAX S4 TXM  
 SHELL SPIRAX S4 TXM  
 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  
 VALVOLINE UTF PREMIUM  
 UNITRAC 80W

**ZF approval number**

ZF000357  
 ZF000358  
 ZF000359  
 ZF001295  
 ZF001613  
 ZF003325  
 ZF000105  
 ZF000827  
 ZF000540  
 ZF001317  
 ZF001346  
 ZF001539  
 ZF002222  
 ZF002218  
 ZF002041

**Lubricant class 21G**

Premium universal axle and transmission oil

**Manufacturer (21G)**

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

**Trade name (21G)**

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

**ZF approval number**

ZF002162  
ZF001021  
ZF002087

**Lubricant class 21K**

Engine oil

Viscosity grades: SAE 10W, 10W-30, 10W-40

in accordance with Specification

API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4

or SF/SG/SH/SJ/SL/SM

or ACEA, categories A, B, E

**Note:**

All trade products which satisfy the above specifications may be used. There will be no product listing.

**Lubricant class 21L**

Automatic Transmission Fluid (ATF) based on mineral base fluids according to former Dexron IID, IIIF, IIIG or IIIH specification by General Motors.

**Note:**

All trade products which satisfy the above specifications may be used. There will be no product listing.

**Lubricant class 21M**

Mineral oil-based hydraulic oil HLP in accordance with DIN 51524-2 or mineral oil-based hydraulic oil HVLP in accordance with DIN 51524-3.

Viscosity grades: ISO VG 32 / 46 / 68

**Note:**

All mineral oil-based gear oils which satisfy the above specifications may be used. There will be no product listing.