



Tractor axles, transmissions for harvesters and final drives

List of lubricants TE-ML 21

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1. Approved lubricant classes

Product groups	Lubricant classes ⁽¹⁾	
	First fill ⁽²⁾	Service fills ⁽³⁾
Axles 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
Transmissions for harvesters 2MD40 3MD30, 3MD35, 3MD40	21A	21A
ZF-half-shafts (planetary final drives) for tractor transmissions Eccom, Terramatic, Terrapower, T-7000 and S-Matic	21A / 21C / 21G	21A / 21C / 21G
Final drives for harvesters S-800, S-950, S-1050, S-1250	21A	21A

The list of lubricants TE-ML 21, **edition 01.01.2019** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.zf.com/lubricants.

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

2. Oil change intervals








2.1 Initial oil change interval

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

2.2 Subsequent oil change interval

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

3. Hydraulic fluids

Product group	Lubricant classes for service fills ⁽¹⁾	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)

ADDINOL LUBE OIL GMBH, LEUNA/DE
ADDINOL LUBE OIL GMBH, LEUNA/DE
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 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
BAHRAIN PETROLEUM COMPANY, AWALI/BH
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
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
BUCHER AG LANGENTHAL, LANGENTHAL/CH
CASTROL LTD, LONDON/GB
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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
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
CHAMPION CHEMICALS N.V., HEMIKSEM/BE
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
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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
DAF TRUCKS NV, EINDHOVEN/NL
DE OLIEBRON BV, ZWIJNDRECHT/NL
DE OLIEBRON BV, ZWIJNDRECHT/NL
DE OLIEBRON BV, ZWIJNDRECHT/NL

Trade name (21A)

ADDINOL GETRIEBEÖL GH 85W-90
ADDINOL GETRIEBEÖL GH 80W-90
ADDINOL GETRIEBEÖL GX 80W-90 ML
ADDINOL GETRIEBEÖL GH 75 W 90 SL
ADDINOL GETRIEBEÖL GH 85 W 140
ADDINOL GETRIEBEÖL GX 80 W 90
ARAL GETRIEBEÖL BS 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
ARAL GETRIEBEÖL HYP 85W-140
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
SPAREX EP 85W-140 GL-5
EMGARD HP 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 85W-140
BP ENERGEAR HYPO 80W-90
UNISYNT ZX SAE 75W90
GEAR ZX TP SAE 80W/90
GEAR ZX TP SAE 80W/140
UNIVERSAL SAE 80W/90
GEAR OIL HYPOID SAE80W/90
PENTA TL SAE 75W/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 85W-140
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 80W-90
CASTROL TRANSMAX UNIVERSAL LL 75W-90
CASTROL TRANSMAX AXLE EPX 85W-140
CASTROL TRANSMAX AXLE EPX 80W-90
CASTROL TRANSMAX AXLE EPX 85W-90
CEPSA TRANSMISIONES EP 80W-90
CEPSA TRANSMISIONES EP 85W-140
CEPSA TRANSMISIONES EP FE+LD 75W-90
CEPSA TRANSMISIONES EP 90
MAN SUPER AXLE 3343 75W-90
MAN SUPER AXLE 342-M2
CHAMPION OEM SPECIFIC 75W90 GL 5
HYPOID LD SAE 85W-90
GEARTEX EP-B 85W-90
GEARTEX EP-C 80W-90
GEARTEX EP-C 85W-140
MULTIGEAR 80W-90
MULTIGEAR PREMIUM EP SAE 85W-140
MULTIGEAR EP SAE 90
MULTIGEAR EP-5 SAE 80W-90
DELO GEAR EP-5 SAE 85W-140
DELO GEAR EP-5 SAE 80W-90
DELO GEAR TDL 80W-90
GEARTEX EP-5 85W-90
GEARTEX EP-5 80W-90
GEARTEX EP-5 85W-140
DELO SYN-TDL 75W-90
DELO GEAR CGA SAE 80W-90
DELO GEAR CGA SAE 80W-90
CLAAS AGRISHIFT MT 80W-90
GEAR TXS 75W90
GEAR EP GL-5 80W-90
DAF SUPER 80W-90
TOR SUPER GEAR OIL 80W90
TOR UNI GEAR LD 75W90
TOR UNI GEAR 75W110 LD

ZF approval number

ZF000555
ZF000671
ZF000672
ZF002260
ZF003561
ZF003620
ZF000133
ZF000135
ZF000142
ZF000460
ZF000464
ZF000930
ZF000680
ZF000681
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ZF000208
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ZF001320
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ZF002163
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ZF000097
ZF000965
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ZF003554
ZF000788
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ZF000808
ZF000812
ZF001196
ZF001243
ZF002137
ZF002254
ZF002270
ZF002273
ZF002278
ZF002279
ZF002280
ZF003353
ZF003438
ZF003442
ZF002088
ZF000829
ZF001604
ZF002125
ZF000963
ZF000964
ZF000968

Manufacturer (21A)**Trade name (21A)****ZF approval number**

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
ENI S.P.A., ROME/IT	ENI ROTRA MP 75W-90	ZF003364
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE 1 SHC 75W-90	ZF000041
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A PLUS 80W-90	ZF000042
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF000668
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90	ZF000763
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC SYNTHETIC GEAR OIL 80W-140	ZF000769
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE S 80W-90	ZF000776
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC 1 GEAR OIL 75W-90	ZF001681
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC 1 GEAR OIL 80W-140	ZF001682
FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS	MULTIHIPO 75W-90 SINT	ZF000653
FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS	MULTIHIPO PLUS 80W-90	ZF001086
FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS	MULTIHIPO 80W-90 F PLUS	ZF001456
FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS	MULTIHIPO 80W-140 F PLUS	ZF001749
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE	AVIATICON FINKOGEAR PREMIUM 75W-90	ZF002249
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE	AVIATICON FINKOGEAR SUPER 80W-90	ZF002299
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC HSY SAE 75W-90	ZF000642
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR HYP LD SAE 80W-90	ZF000645
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR SAE 80W-90	ZF000647
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR SAE 85W-140	ZF000650
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR HYP SAE 90	ZF000656
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR MC SAE 80W-90	ZF000722
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC RR SAE 75W-90	ZF000732
FUCHS PETROLUB SE, MANNHEIM/DE	GEARWAY S5 75W-90	ZF001030
FUCHS PETROLUB SE, MANNHEIM/DE	GEARWAY G5 80W-90	ZF001036
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GETRIEBEÖL O-226 80W-90	ZF001195
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN G5 85W-90	ZF001422
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN TRX 85W-110	ZF001532
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC TD SAE 75W-90	ZF003341
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-TRUCK GL-4/GL-5 80W-90	ZF000554
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-TRUCK GL-5 80W-90	ZF000556
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-TRUCK GL-5 85W-140	ZF000557
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT SUPER T-3 SAE 85W90	ZF000946
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	G-BOX GL-4/GL-5 75W-90	ZF000962
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-4/GL-5 75W-90	ZF002302
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	KAMAZ G-PROFI SERVICE LINE GL-4/GL-5 75W-90	ZF003388
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	GAZPROMNEFT GL-5 80W-90	ZF003509
GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE	OEST SYNTH GETRIEBEÖL SAE 75W-90	ZF000491
GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE	OEST GETRIEBEÖL FE SAE 80W-90 GL4/5	ZF000565
GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE	OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90	ZF000566
GRUPA LOTOS S.A., GDANSK/PL	TITANIS SUPER GL-5 80W/140	ZF000353
GRUPA LOTOS S.A., GDANSK/PL	TITANIS SUPER GL-5 75W/90	ZF000356
GRUPA LOTOS S.A., GDANSK/PL	LOTOS TITANIS GL-5 80W-90	ZF000923
GRUPA LOTOS S.A., GDANSK/PL	TITANIS SUPER GL-5 80W-90	ZF001098
GS CALTEX CORPORATION, SEOUL/KR	KIXX GEARTEC X GL-5 80W-90	ZF003553
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR TDL 80W-90	ZF000780
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF SYNGEAR 75W-90	ZF000863
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR DB 80W-90	ZF000879
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR DB 90	ZF000886
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR DB 85W-90	ZF000887
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LD 80W-90	ZF001134
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR HD 85W-90	ZF001151
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LD 80W-90	ZF001950
HILL CORPORATION, SHYMKENT/KZ	FASTROL TRANSMISSION I 80W-90 GL-5	ZF001009
HILL CORPORATION, SHYMKENT/KZ	FASTROL MTF5 80W-90	ZF003435
HUILES BERLIET S.A., SAINT-PIERRE/FR	RTO LONGEVIA TC ECO 80W-90	ZF001564
HUILES BERLIET S.A., SAINT-PIERRE/FR	RTO LONGEVIA TCX ECO 75W-90	ZF001566
IGOL FRANCE, AMIENS/FR	SYNTHEGEAR 75W-90	ZF001087
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL GTL DB 90	ZF000416
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL GTL HD 80W-90	ZF000417
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL GTL HD 85W-140	ZF000418
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL TDL 80W-90	ZF000432
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL SHD 75W-90	ZF000977
INGRAX INDUSTRIA E COMERCIO DE GRAXA S/A, DUQUE DE CAXIAS/BR	MULTIGEROL 85W140	ZF001630
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 TRANS XGS 75W-90	ZF000179
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 TRANS XGR 75W-140	ZF000853
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 66 SAE 75W-110	ZF000926
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 AXLE OIL XG SAE 80W-140	ZF002102
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 GEAR OIL XG SAE 80W-90	ZF002103
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 SYNTHETIC GEAR OIL SAE 80W-140	ZF002105
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 80W-90	ZF002110
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 85W-140	ZF002111
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 90	ZF002112
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 80W-90	ZF003681
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR HYPOID 90 EP	ZF000846
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR HYPOID 85W-140 EP	ZF000847
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR SYNTOGEAR PLUS 75W-90	ZF001972
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90	ZF000695
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90	ZF001323
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)	ZF001347
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90	ZF002053
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90	ZF000069
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL TDL 80W-90	ZF001183
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90	ZF001291
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-140	ZF001997
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90	ZF001998
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL K 85W90	ZF001113

Manufacturer (21A)

MOL-LUB KFT, ALMASFUZITO/HU
MOL-LUB KFT, ALMASFUZITO/HU
MOOVE LUBRICANTS, GRAVESEND/GB
MOOVE LUBRICANTS, GRAVESEND/GB
MORRIS LUBRICANTS, SHREWSBURY/GB
MORRIS LUBRICANTS, SHREWSBURY/GB
MOTUL SA, AUBERVILLIERS/FR
MOTUL SA, AUBERVILLIERS/FR
NIS AD, NOVI SAD/RS
NIS AD, NOVI SAD/RS
NIS AD, NOVI SAD/RS
OILFINO MINERALÖL GMBH, PRISDORF/DE
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
OOO "LLK-INTERNATIONAL", MOSCOW/RU
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
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
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
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
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
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PHI OIL GMBH, ST. GEORGEN/AT
PHI OIL GMBH, ST. GEORGEN/AT
PRISTA OIL HOLDING EAD, RUSE/BG
PRISTA OIL HOLDING EAD, RUSE/BG
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

Trade name (21A)

MOL HYKOMOL ZF 80W90
MOL HYKOMOL TDL 75W90
COMMA PRO EP 80W-90
COMMA PRO EP 75W-90 TDL
EP 80W-90 GEAR OIL
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
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
LUKOIL TRANSMISSION GL-5 90
LUKOIL TRANSMISSION GL-5 85W-140
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
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
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
ROSNEFT KINETIC HYPOID 80W-90
ROSNEFT KINETIC HYPOID 85W-140

ZF approval number

ZF001118
ZF003365
ZF003324
ZF003420
ZF000275
ZF001670
ZF000398
ZF000825
ZF000490
ZF001362
ZF002038
ZF000741
ZF001013
ZF001015
ZF001230
ZF001595
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ZF001603
ZF001762
ZF001768
ZF001769
ZF002259
ZF003405
ZF003408
ZF003414
ZF003415
ZF000503
ZF000311
ZF000502
ZF001969
ZF001970
ZF002039
ZF001224
ZF001831
ZF000423
ZF000434
ZF000462
ZF001115
ZF001117
ZF003437
ZF000764
ZF000778
ZF002212
ZF002287
ZF003389
ZF003390
ZF001474
ZF001475
ZF000772
ZF000773
ZF000777
ZF000980
ZF001981
ZF001499
ZF001591
ZF001665
ZF001966
ZF000007
ZF000008
ZF000231
ZF000232
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ZF000516
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ZF001199
ZF001201
ZF001738
ZF001203
ZF003606
ZF000378
ZF000380
ZF002076
ZF002077
ZF001110
ZF001438
ZF000379
ZF000451
ZF000623
ZF001018
ZF001141
ZF001142
ZF003335
ZF003336

Manufacturer (21A)

RN-LUBRICANTS, LLC, MOSCOW/RU
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL OIL, RANDBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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
 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
 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
 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
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 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)

ROSNFT KINETIC HYPOID 85W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 ROLF TRANSMISSION M5 A 80W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 AXME 75W-140
 SHELL SPIRAX MB 90
 SHELL SPIRAX MB 90
 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 TRANSSELF SYNTHESSE 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 TRANSSELF 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
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90
 YORK 896 75W90
 YORK 793 SAE 80W90
 YORK 793 SAE 85W140
 HIPODAL SUPER S 75W-90
 DIVINOL MULTI-AXLE 80W90
 ZF-ECOFLUID X SAE 80W-90

ZF approval number

ZF003337
 ZF003626
 ZF003629
 ZF000702
 ZF000016
 ZF000021
 ZF000322
 ZF000323
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 ZF001232
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 ZF003525
 ZF001612
 ZF000550
 ZF001129
 ZF001130
 ZF003384
 ZF001684
 ZF001286

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
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 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
 JOHNAIT 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
 NILS SPA, BURGSTALL/IT
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US
 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 OIL AND RETAIL BUSINESS PLC., 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
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 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

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
 CEPASA AURIGA LS PLUS 80W-90
 CHAMPION OEM SPECIFIC 80W90 LS GL 5
 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
 ALGOL HYPOID LS 90
 POSI-GRIP JDZF 80W90
 POSI-GRIP JDZF 85W140
 OILFINO VARIUS G 400LS 85W-90
 LUKOIL TRANSMISSION LS 80W-90
 LUKOIL TRANSMISSION LS 85W-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 85W/90
 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
 ROLF TRANSMISSION M5 A-LS 80W-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

ZF approval number

ZF000629
 ZF000703
 ZF003466
 ZF003467
 ZF000140
 ZF000465
 ZF000844
 ZF001167
 ZF002257
 ZF000727
 ZF000269
 ZF000307
 ZF002044
 ZF002141
 ZF002178
 ZF001050
 ZF003555
 ZF000787
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 ZF002109
 ZF000845
 ZF001367
 ZF001345
 ZF001075
 ZF001114
 ZF001637
 ZF003447
 ZF000049
 ZF000051
 ZF000740
 ZF003406
 ZF003594
 ZF000603
 ZF001272
 ZF001459
 ZF003352
 ZF000027
 ZF000396
 ZF003410
 ZF001480
 ZF000546
 ZF000781
 ZF000782
 ZF000901
 ZF001373
 ZF001004
 ZF000013
 ZF001180
 ZF000981
 ZF000761
 ZF000791
 ZF003625
 ZF000700
 ZF001857
 ZF001898
 ZF001303
 ZF000127
 ZF003340
 ZF000442
 ZF001255

Manufacturer (21C)

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
WOLF OIL CORPORATION N.V., HEMIKSEM/BE
YACCO SAS, ST PIERRE LES ELBEUF/FR

Trade name (21C)

TOTAL DYNATRANS DA 85W-140
TOTAL DYNATRANS LS 80W-90
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
WOLF OFFICIALTECH 80W90 LS GL 5
BVX LS 200 80W-90

ZF approval number

ZF001512
ZF001545
ZF001546
ZF001548
ZF002309
ZF000526
ZF001465
ZF001996
ZF003552
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, MARKTOBERDORF/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
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CLASS KGAA MBH, HARSEWINKEL/DE
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 EUROL B.V., NJIVERDAL/NL
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GB LUBRICANTS, GATESHEAD/GB
 GS CALTEX CORPORATION, SEOUL/KR
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 HYUNDAI OILBANK CO., LTD., SEOUL/KR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 JCB INDIA, BALLABGARH/IN
 JOHN DEERE, MOLINE, ILLINOIS/US
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 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
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 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SAME DEUTZ FAHR, TREVIGLIO/IT
 SAME DEUTZ FAHR, TREVIGLIO/IT

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
 CEPESA AURIGA TE 55 10W-30
 CHEVRON 1000 THF
 TEXTRAN TDH PREMIUM
 CLAAS AGRISHIFT GA 12
 AVENO UTTO
 EUROL HYKROL JD 68
 MOBILFLUID 424
 MOBILFLUID 426
 MOBIL HYDRAUL 56
 FUCHS TITAN UTTO ZF (SAE 20W-40)
 FUCHS TITAN AGRIFARM UTTO MP
 FUCHS TITAN AGRIFARM UTTO MP
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO PREMIUM 10W-30
 GB UNITRANS(R) ZF
 DOOSAN AXLE OIL STANDARD
 GULF MPTF 10W-30
 GULF MPTF 10W-30
 HP SUPERTRAN FM
 XTEER THF 75W-80
 INA TRANSHIDROL JD 50
 INA TRANSHIDROL ZF 20W-40
 INA TRANSHIDROL JD 50
 JCB REAR AXLE OIL
 JOHN DEERE HY-GARD
 Q8 T 2000
 JCB HP GEAR OIL PLUS
 Q8 T 2200
 Q8 T 2200
 Q8 T 2200
 LIEBHERR GEAR MF 80W
 LIQUI MOLY SPECIAL UTTO
 MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30
 RW DRIVE FORCE UTTO SAE 10W-30
 LUKOIL VERSO PLUS
 LUKOIL VERSO LVX
 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)
 AMBRA MULTI G (SAE 10W-30)
 GEAR OIL UTTO SILVER 10W-30
 RAVENOL GETRIEBEÖL UTTO
 REPSOL ORION UTTO
 ROLF UTTO SAE 10W-30
 SDF UTTO
 DF UTTO

ZF approval number

ZF000509
 ZF001845
 ZF003465
 ZF000457
 ZF001811
 ZF001161
 ZF002193
 ZF000210
 ZF000897
 ZF002161
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 ZF002152
 ZF003443
 ZF000958
 ZF001718
 ZF003445
 ZF003375
 ZF002229
 ZF002230

Manufacturer (21F)

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

Trade name (21F)

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

ZF approval number

ZF000707
 ZF001828
 ZF001131
 ZF001959
 ZF000357
 ZF000358
 ZF000359
 ZF001295
 ZF001613
 ZF003325
 ZF000105
 ZF000827
 ZF000540
 ZF001317
 ZF001346
 ZF001539
 ZF002222
 ZF003564
 ZF003565
 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 IIH 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.