



Industrial Technology

Tractor axles, transmissions for harvesters and final drives

List of lubricants TE-ML 21

Table of contents

Page

1. Approved lubricant classes	1
2. Oil change intervals	2
2.1 Initial oil change interval	2
2.2 Subsequent oil change interval	2
3. Hydraulic fluids	2
4. Greasing points	2
5. Explanation of footnotes and comments	3
6. Lubricant classes and approved trade products	4

1. Approved lubricant classes

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

The list of lubricants TE-ML 21, **edition 01.04.2026** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.aftermarket.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	ZF PowerFluid Gear LS 21C / 21F / 21N	ZF PowerFluid Plus 21E / 21G
Product groups	Initial oil change interval		
Axles APL, AS, TSA, TDA	-	1500 h ⁽⁴⁾	1500 h ⁽⁴⁾
Transmissions for harvesters	500 h	-	-
ZF-half-shafts	500 h	500 h ⁽⁴⁾	500 h ⁽⁴⁾
Final drives for harvesters	500 h	-	-

2.2 Subsequent oil change interval

Lubricant classes	21A	ZF PowerFluid Gear LS 21C / 21F / 21N	ZF PowerFluid Plus 21E / 21G
Product groups	Subsequent oil change interval		
Axles APL, AS, TSA, TDA	-	1500 h	3000 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 
	21E / 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	Lubricant classes for service fills ⁽¹⁾
All	21Q 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.
- (4) The original ZF factory fill is to remain in the axle for at least the first 500 operating hours; it is not recommended to change the oil earlier.

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.

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
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 85 W 140	ZF003561
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GX 80 W 90	ZF003620
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN AX 85W-90	ZF012196
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN GAX 80W-90	ZF012197
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN PREMIUM AX 80W-90	ZF012198
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN SUPREME GAX 75W-90	ZF012039
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL5 SAE 80W-90	ZF004777
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL4/GL5 SAE 80W-90	ZF004780
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL5 SAE 85W-90	ZF004793
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90	ZF004797
BAPCO REFINING, AWALI/BH	SPAREX EP 90 GL-5	ZF001693
BAPCO REFINING, AWALI/BH	SPAREX EP 90 GL-5	ZF002316
BAPCO REFINING, AWALI/BH	SPAREX EP 80W-90 GL-5	ZF002317
BAPCO REFINING, AWALI/BH	SPAREX EP 85W-140 GL-5	ZF002318
BASF SE, LUDWIGSHAFEN/DE	EMGARD HP 75W-90	ZF001716
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR HYP 90	ZF005977
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR PLUS 8090	ZF012143
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90	ZF005978
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP MD 80W-90	ZF006035
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP PLUS 80W-90	ZF011935
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP EXTRA 80W-90	ZF011981
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA SGP 75W90	ZF004734
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA BGP 80W90	ZF004735
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 85W-140	ZF0000910
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF0011320
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF0011754
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 80W-90	ZF002163
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 85W-90	ZF003394
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE LONG DRAIN 80W-90	ZF004885
CASTROL LTD, LONDON/GB	CASTROL SAF-XO 75W-90	ZF006097
CHAMPION CHEMICALS N.V., HEKIMSEM/BE	CHAMPION OEM SPECIFIC 75W90 GL 5	ZF003554
CHEVRON LUBRICANTS, SAN RAMON, CA/US	HYPOID LD SAE 85W-90	ZF000788
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 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 TDL 80W-90	ZF002273
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-GEAR XS 75W-140	ZF002274
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 80W-90	ZF002270
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-5 80W-90	ZF002279
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-TDL 75W-90	ZF003353
CLASS KGAA MBH, HARSEWINKEL/DE	AGRISHIFT MT 80W-90	ZF008203
CLASS KGAA MBH, HARSEWINKEL/DE	AGRISHIFT MT 80W-90	ZF008233
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR	GEAR TXS 75W90	ZF000829
CYCLON HELLAS SA, ATHENS/GR	GEAR EP GL-5 80W-90	ZF0011604
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR SUPER GEAR OIL 80W90	ZF000963
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR UNI GEAR LD 75W90	ZF000964
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE	AVENO TDL ULTIMATE 75W-90	ZF010792
EKO ABEE, ATHENS/GR	EKO GEAROL-5 80W-90	ZF003351
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS	MULTIHIPO 75W-90 SINT	ZF000653
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS	MULTIHIPO PLUS 80W-90	ZF001086
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS	MULTIHIPO 80W-90 F PLUS	ZF001456
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS	MULTIHIPO 80W-140 F PLUS	ZF001749
ENILIVE S.P.A., ROME/IT	ENI ROTRA MP 80W-90	ZF000855
ENILIVE S.P.A., ROME/IT	ENI ROTRA MP 85W-140	ZF000856
ENILIVE S.P.A., ROME/IT	ENI ROTRA LSX 75W-90	ZF000860
ENILIVE 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	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
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90	ZF003699
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 V1	ZF008180
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008179
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 V1	ZF008311
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008309
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008310
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 HDA	ZF009835
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90	ZF012014
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 V1	ZF012012
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE S 80W-90	ZF012155

ZF approval number

EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL LUBE HD-A 85W-90	ZF002157
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 V1	ZF012186
FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE	AVIATICON FINKOGEAR PREMIUM 75W-90	ZF002249
FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE	AVIATICON FINKOGEAR SUPER 80W-90	ZF002299
FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE	AVIATICON HYPOID EP 80W-90	ZF012141
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	FUCHS TITAN CYTRAC TD SAE 75W-90	ZF003341
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM GEAR SAE 80W-90	ZF003624
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GEAR SAE 80W-90	ZF004809
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GEAR SAE 85W-140	ZF004810
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR SAE 85W-110	ZF004921
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GEAR PRO SAE 75W-90	ZF004930
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GEAR ULTRA SAE 75W-90	ZF004931
FUCHS PETROLUB SE, MANNHEIM/DE	TITAN SUPERGEAR PLUS SAE 80W-90	ZF010958
FUCHS PETROLUB SE, MANNHEIM/DE	TITAN SUPERGEAR MC SAE 80W-140	ZF006028
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 HD 85W-90	ZF001151
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LD 80W-90	ZF001950
HILL CORPORATION, SHYMKENT/KZ	FASTROIL MTF5 80W-90	ZF003435
HUILES BERLIET S.A., SAINT-PRIEST/FR	LONGEVIA TC ECO 80W-90	ZF008379
HUILES BERLIET S.A., SAINT-PRIEST/FR	LONGEVIA TCX ECO 75W-90	ZF008392
HUILES BERLIET S.A., SAINT-PRIEST/FR	LONGEVIA HD 80W-90	ZF008396
IGOL FRANCE, AMIENS/FR	SYNTHEGEAR 75W-90	ZF008361
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 (BELGIUM) N.V., ANTWERP/BE	Q8 TRANS XGS 75W-90	ZF000179
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 TRANS XGR 75W-140	ZF000853
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 GEAR OIL XG SAE 80W-90	ZF002103
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 AXLE OIL XG SAE 80W-140	ZF002102
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 SYNTHETIC GEAR OIL SAE 80W-140	ZF002105
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 55 SAE 80W-90	ZF002110
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 55 SAE 85W-140	ZF002111
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 55 SAE 90	ZF002112
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 55 SAE 80W-90	ZF003681
LAEMMLE CHEMICALS AG, MADETSWIL/CH	ROXOR SUPER DUTY SYNTH 75W-140	ZF010967
LAEMMLE CHEMICALS AG, MADETSWIL/CH	ROXOR SUPER DUTY SYNTH 75W-90	ZF009457
LAEMMLE CHEMICALS AG, MADETSWIL/CH	ROXOR TOPGEAR 80W-90	ZF010966
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR HYPOID 85W-140 EP	ZF000847
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR HYPOID 90 EP	ZF004912
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR SYNTOGear PLUS 75W-90	ZF006012
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
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID-GETRIEBEÖL (GL5) SAE 85W-140	ZF005974
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION LD 80W-90	ZF010982
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION B 85W-90	ZF010981
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION SYNTH BSX 75W-90	ZF010972
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION MN 75W-90	ZF012099
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION UNI 80W-90	ZF012150
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

ZF approval number

ZF007146
ZF008207
ZF008225
ZF003680
ZF000491
ZF000565
ZF000566
ZF000741
ZF004755
ZF000502
ZF011288
ZF011188
ZF000923
ZF001098
ZF005949
ZF001224
ZF001831
ZF000778
ZF002287
ZF003389
ZF003390
ZF011057
ZF011024
ZF011058
ZF011913
ZF000764
ZF002212
ZF000772
ZF000773
ZF000777
ZF000980
ZF001981
ZF001665
ZF001591
ZF001499
ZF000007
ZF000008
ZF000231
ZF000232
ZF000233
ZF000234
ZF000235
ZF000516
ZF000666
ZF000667
ZF000839
ZF0001199
ZF001201
ZF001738
ZF003636
ZF003638
ZF003639
ZF003640
ZF003641
ZF003642
ZF003647
ZF003648
ZF003649
ZF003658
ZF003659
ZF003685
ZF003696
ZF003703
ZF009901
ZF012053
ZF011201
ZF003606
ZF000378
ZF000380
ZF001118
ZF005984
ZF006037
ZF006038
ZF003851
ZF000379
ZF000451
ZF000623
ZF001018
ZF001141
ZF001142
ZF008268
ZF008269
ZF008270
ZF008271
ZF008272
ZF008273
ZF003626
ZF003629
ZF000610
ZF000479

ZF approval number

SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AD 80W-90
SHELL SPIRAX S3 AM 80W-90
SHELL SPIRAX S6 AXME 75W-90
SHELL SPIRAX HD 80W- 90
SHELL SPIRAX HD 80W- 90
SHELL SPIRAX S 75W-140
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S6 ADME 75W- 90
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S6 AXME 75W-140
SHELL SPIRAX MB 90
GEARLUBE HG M2 SAE 80W-90
SINOPEC GREATWALL VT 75W/90
SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
SINOPEC GREATWALL MULTIPURPOSE 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
SRS WIOLIN HGAV 80W-90
SRS WIOLIN HL 5 85W-140
SWD RHEINOL SYNKROL 5 - SAE 85W140
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
MONTANA DYNAMIC TRACTOGEAR 5 80W90
ELF TRANSOLF TYPE B 90
TRAXIUM DUAL 8 FE 80W-90
TRAXIUM AXLE 7 85W-140
TRAXIUM DUAL 9 FE 75W-90
DYNATRANS HD 80W-90
TRAXIUM AXLE 7 85W-90
TRAXIUM AXLE 7 85W-90
TRAXIUM AXLE 7 85W-90
TRANSOLF TYPE B 85W-140
TRAXIUM AXLE 7 80W-90
TRAXIUM AXLE 7 80W-90
TRANSOLF TYPE B 80W-90
TRAXIUM AXLE 9 80W-90
TRAXIUM AXLE 9 80W-90
TRANSOLF TYPE B 80W-90
DYNATRANS HD 80W 90
TRAXIUM AXLE 8 FE 80W-140
DYNATRANS HD 85W-140
TRANSOLF SYN FE 75W-90
TRAXIUM AXLE 7 80W-90
TRAXIUM AXLE 7 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 75W-140
KUBOTA 80W-90 GEAR LUBRICANT HD
LUBRAX TRM 5 SAE 85W-140
LUBRAX TRM 5 SAE 90
LUBRAX TRM 5 SAE 85W-140
HOYER GEAR F-FP 75W-90
HOYER GEAR M-FS 80W-90
WOLF OFFICIALTECH 75W90 GL 5
BVX 1000 75W-90
DIVINOL MULTI-AXLE 80W90
DIVINOL GETRIEBEÖL ST 80W90
ZF ECOFLUID X SAE 80W-90

ZF001232
ZF001233
ZF001237
ZF001292
ZF001262
ZF001352
ZF001353
ZF001354
ZF001380
ZF001619
ZF001620
ZF001621
ZF003334
ZF008188
ZF008191
ZF008187
ZF009571
ZF009572
ZF009573
ZF009574
ZF009575
ZF009576
ZF010960
ZF010963
ZF010962
ZF010959
ZF010961
ZF004860
ZF008356
ZF005976
ZF000527
ZF003332
ZF002267
ZF000441
ZF000443
ZF000444
ZF000447
ZF001655
ZF001911
ZF001912
ZF010330
ZF011907
ZF004746
ZF001342
ZF001458
ZF001941
ZF001942
ZF003665
ZF002069
ZF004817
ZF006073
ZF006074
ZF008196
ZF008210
ZF008211
ZF008219
ZF008224
ZF008225
ZF008227
ZF008229
ZF008230
ZF008231
ZF008232
ZF008296
ZF008328
ZF008393
ZF011486
ZF011518
ZF000343
ZF001283
ZF001837
ZF001874
ZF008218
ZF001474
ZF006105
ZF007142
ZF011993
ZF011992
ZF003525
ZF009462
ZF001684
ZF012095
ZF001266

Lubricant class 21C

Transmission oil with limited-slip additives

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

Manufacturer (21C)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 AGCO GMBH, MARKTOBERDORF/DE
 AGCO GMBH, MARKTOBERDORF/DE
 AVIA AG, MÜNCHEN/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GS CALTEX CORPORATION, SEOUL/KR
 GS CALTEX CORPORATION, SEOUL/KR
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 HITACHI CONSTRUCTION MACHINERY EUROPE NV, AMSTERDAM/NL
 HUILES BERLIET S.A., SAINT-PIERST/FR
 INA MAZIVA LTD., ZAGREB/HR
 JOHN DEERE, MOLINE, ILLINOIS/US
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 NILS SPA, BURGSTALL/IT
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US
 OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN S.A., GDANSK/PL
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL ENERGY, JOHANNESBURG/ZA
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
 SENNEBOGEN MASCHINENFABRIK GMBH, STEINACH/DE
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SK ENMOVE CO.,LTD., SEOUL/KR
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

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
 AVIA POWERTRAIN AX-LS 85W-90
 AVISTA PEER EVO GL5 LS SAE 90
 TECTROL MULTIGEAR LS 90
 TECTROL MULTIGEAR LS 90
 BELGEAR LS 85W90
 EVOLCA BGX 85W90
 CASTROL TRANSMAX LIMITED SLIP LL 75W-140
 CASTROL TRANSMAX LIMITED SLIP Z 85W-90
 CHAMPION OEM SPECIFIC 80W90 LS GL 5
 GEAR OIL ZF SAE 80W-90
 GEARTEX LS 80W-90
 GEARTEX LS 85W-90
 MOBILUBE LS 85W-90
 MOBILUBE LS 85W-90
 MOBIL DELVAC MODERN AXLE OIL 85W-90 LIMITED SLIP
 AVIATICON HYPOID LS 90
 FUCHS TITAN GEAR LS SAE 90
 DOOSAN LS GEAR OIL 80W90
 DEVELON LS GEAR OIL 80W90
 GULF GEAR LS 90
 HP GEAR OIL ZFL 80W 90 LS
 HITACHI GENUINE AXLE OIL ZX-W LS 80W-90
 EP 90 GL
 INA HIPENOL GTL LS 90
 JOHN DEERE GL-5 GEAR LUBRICANT W/LS ADD 80W-90
 Q8 T 45 LS SAE 90
 LIEBHERR GEAR BASIC 90 LS
 LIQUI MOLY HYPOID-GETRIEBEÖL PLUS GL 5 LS 85W-90
 LUKOIL GEAR GL-5 LS 85W-90
 LUKOIL TRANSMISSION LS 80W-90
 LUKOIL TRANSMISSION LS 85W-90
 MEGOL HYPOID-GETRIEBEOEL AXLE LS SAE 85W-90
 CEPESA AURIGA LS PLUS 80W-90
 MOL HYKOMOL LS 85W90
 MOTOREX YORK LS UNIVERSAL SAE 90
 YORK 699 LS SAE 90
 ALGOL HYPOID LS 90
 POSI-GRIP JDZF 80W90
 OEST GETRIEBEÖL HYPOID LS 90
 OILFINO VARIUS G 400LS 85W-90
 PLATINUM GEAR LS 80W-90
 PLATINUM AGRO LS 80W-90
 ORLEN OIL GEAR LS 80W-90
 ORLEN OIL AGRO LS 80W-90
 LOTOS TITANIS LS GL-5 80W-90
 UNIVERSAL GEAR EP LS SAE 85W/90
 GALP TRANSOIL HP LS 90
 MAXIGEAR EP-X 85W-90LS
 AMBRA AXF 80W-90 (SAE 80W-90)
 AKCELA AXLEPOWER (SAE 80W-90)
 TUTELA TRANSMISSION W90/LS (SAE 80W-90)
 ARBOR TTF (SAE 80W-90)
 PETRONAS AXLE 300 LS 80W-90
 SUPERGEAR BRONZE 85W90 LS
 REPSOL CARTAGO EP AUTOBLOCANTE SAE 80W90
 REPSOL NAVIGATOR LSD 80W-90
 ROLF TRANSMISSION M5 A-LS 80W-90
 SASOL DIFFERENTIAL OIL LIMITED SLIP 80W-90
 SAVSOL AUTOGEAR 90 LIMITED SLIP GL-5
 SENLUBE GEAR HYPOID LS
 SHELL SPIRAX S3 ALS 80W-90
 SHELL SPIRAX S3 ALS 85W- 90
 SINOPEC GREATWALL ZLS GL-5 85W/90
 SK ZIC G-5 LSD 80W-90
 SRS WIOLIN RSH
 ELF TRACTELF BLS 80W-90
 DYNATRANS DA 80W-90
 DYNATRANS LS 80W-90
 CLASS AGRISHIFT BLS 80W-90
 GEAR AB-EP 85W90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LS
 HOYER GEAR M-LS 90
 WOLF OFFICIALTECH 80W90 LS GL 5
 ZF POWERFLUID GEAR LS

ZF approval number

ZF000629
 ZF000703
 ZF003466
 ZF003467
 ZF012107
 ZF004776
 ZF001167
 ZF012142
 ZF002257
 ZF004736
 ZF002141
 ZF002178
 ZF003555
 ZF000787
 ZF000809
 ZF000810
 ZF000031
 ZF011090
 ZF011912
 ZF002301
 ZF000651
 ZF001341
 ZF011965
 ZF000891
 ZF001578
 ZF003705
 ZF008267
 ZF000424
 ZF001312
 ZF002109
 ZF000845
 ZF001367
 ZF012151
 ZF012140
 ZF012114
 ZF001345
 ZF001050
 ZF001114
 ZF008206
 ZF008260
 ZF003447
 ZF000049
 ZF001479
 ZF000740
 ZF000603
 ZF001272
 ZF011287
 ZF011924
 ZF000924
 ZF000027
 ZF003410
 ZF001480
 ZF000546
 ZF000781
 ZF000901
 ZF001373
 ZF009452
 ZF001004
 ZF000981
 ZF008276
 ZF003625
 ZF000700
 ZF001898
 ZF008345
 ZF001303
 ZF004813
 ZF000127
 ZF003340
 ZF000442
 ZF006120
 ZF006121
 ZF006122
 ZF008173
 ZF000526
 ZF001996
 ZF011994
 ZF003552
 ZF008414

Lubricant class 21E
Universal axle and transmission oil

Manufacturer (21E)	Trade name (21E)	ZF approval number
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US	PREMIUM TRANSAXLE OIL 80W-140	ZF005941
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR	LUBRAX UNITRACTOR 10W-30	ZF010660

Universal axle and transmission oil

ZF approval number

ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL UTTO SAE 10W-30	ZF000509
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL UTTO EXTRA (SAE 20W-40)	ZF001845
AGCO GMBH, MARKTOBERDORF/DE	VALTRA TRANSMISSION XT60	ZF003465
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA C+ AGROLUBE	ZF003719
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA C+ LANDINI	ZF003717
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA C+ MCCORMICK	ZF003718
AVIA AG, MÜNCHEN/DE	AVIA HYDROFLUID DLZ	ZF005975
AVIA AG, MÜNCHEN/DE	AVIA HYDROFLUID TD	ZF001811
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN UTTO-DLZ	ZF012242
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UTTO-ZF	ZF001161
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UTTO-HF	ZF002193
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX AGROS UTTO PLUS	ZF012190
BELL EQUIPMENT GROUP SERVICES (PTY) LTD, RICHARDS BAY/ZA	BELL UTTO ULTRA	ZF012243
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA UTTO 8068	ZF004739
BP PLC., LONDON/GB	BP TRACTRAN TF-10	ZF000897
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI TRANS PLUS 80W	ZF002188
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI TRANS PLUS 80W	ZF004801
CATERPILLAR, INC., MOSSVILLE/US	CAT MULTIPURPOSE TRACTOR OIL	ZF000834
CHAMPION CHEMICALS N.V., HEMIKSEM/BE	CHAMPION U.T.T. OIL 170 BM	ZF011908
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011782
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011650
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011683
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011716
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011783
CHEVRON LUBRICANTS, SAN RAMON, CA/US	1000 THF	ZF011749
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US	PREMIUM TRANSAXLE OIL 20W-40	ZF011941
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US	PREMIUM TRANSAXLE OIL 20W-40	ZF011940
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE	AVENO UTTO	ZF001687
ENGEN PETROLEUM (PTY) LIMITED, CAPE TOWN/ZA	ENGEN AGRIFLUID	ZF010627
EUROL B.V., NJIVERDAL/NL	EUROL HYKKROL JD 68	ZF001971
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 424	ZF000040
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 424	ZF000060
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL HYDRAUL 56	ZF003675
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 424	ZF004764
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428	ZF005939
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428	ZF008221
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428	ZF008383
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 424	ZF011883
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011983
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011982
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011970
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011968
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011969
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILFLUID 428 V2	ZF011972
FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/DE	AVIATICON AGRA PREMIUM UTTO	ZF004850
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN UTTO ZF (SAE 20W-40)	ZF000661
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN AGRIFARM UTTO MP	ZF002184
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN AGRIFARM UTTO MP	ZF002183
FUCHS PETROLUB SE, MANNHEIM/DE	TITAN UTTO WB	ZF004829
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM UTTO MP	ZF012245
GB LUBRICANTS, GATESHEAD/GB	GB UNITRANS(R) ZF	ZF000070
GS CALTEX CORPORATION, SEOUL/KR	DEVELON AXLE OIL STANDARD	ZF011963
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF MPTF 10W-30	ZF000921
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF MPTF 10W-30	ZF000922
HUILES BERLIET S.A., SAINT-PIERRE/FR	EPMF	ZF008266
INA MAZIVA LTD., ZAGREB/HR	INA TRANSHIDROL JD 50	ZF000400
INA MAZIVA LTD., ZAGREB/HR	INA TRANSHIDROL ZF 20W-40	ZF000433
INA MAZIVA LTD., ZAGREB/HR	INA TRANSHIDROL JD 50	ZF000613
JOHN DEERE, MOLINE, ILLINOIS/US	JOHN DEERE HY-GARD	ZF001223
KROON-OIL B.V., ALMELO/NL	AGRIFLUID HT-PLUS	ZF008247
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 2000	ZF000177
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	JCB HP GEAR OIL PLUS	ZF001636
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	JCB HP GEAR OIL PLUS	ZF002096
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	JCB HP GEAR OIL PLUS	ZF003538
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 2200	ZF003694
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 TERRA 2200 UTTO	ZF012087
LAEMMLE CHEMICALS AG, MADEITSWIL/CH	ROXOR CONSTAR UTTO 803	ZF009445
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR MF 80W	ZF001856
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR PLUS 20W-40	ZF004845
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR PLUS 20W-40	ZF006093
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR MF 80W	ZF004844
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY SPECIAL UTTO	ZF001368
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY TRAKTORÖL UTTO	ZF011939
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30	ZF001344
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL TRAKTORENOEL UTTO	ZF011906
MOEVE COMMERCIAL S.A.U., MADRID/ES	CEPSA AURIGA TE 55 10W-30	ZF001200
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK FARMER POLY 304	ZF008198
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK UTTO CF SAE 10W30	ZF008241
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK FARMER POLY 604	ZF006009
OPET FUCHS MADENI YAG SAN. VE TIC. A.S., IZMIR/TR	OPET FULLGEAR FD 80W-140	ZF001866
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	UTTO FLUID 4 D SAE 10W-30	ZF012042
PETROGAL S.A., LISBOA/PT	GALP TRALUB 807 S	ZF000849
PETROL OFISI A.S., ISTANBUL/TR	MAXITRAK TMS OIL 500	ZF001351
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA MULTI G (SAE 10W-30)	ZF000544
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA MULTI G (SAE 10W-30)	ZF000545
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA MULTI G (SAE 10W-30)	ZF000551

ZF approval number

ZF000944
ZF001184
ZF001149
ZF001461
ZF001634
ZF001838
ZF002075
ZF002092
ZF002093
ZF002131
ZF002152
ZF003443
ZF004830
ZF009459
ZF009460
ZF010231
ZF010264
ZF010000
ZF000943
ZF009467
ZF011937
ZF011980
ZF000958
ZF001718
ZF008204
ZF003445
ZF002229
ZF002230
ZF000707
ZF001131
ZF008341
ZF000357
ZF000358
ZF000359
ZF001295
ZF001613
ZF003325
ZF005938
ZF008286
ZF001959
ZF000105
ZF004916
ZF003380
ZF004867
ZF001346
ZF002222
ZF008262
ZF003565
ZF009470
ZF002041
ZF001366
ZF011996
ZF005951
ZF011927

Lubricant class 21G
Premium universal axle and transmission oil

Manufacturer (21G)	Trade name (21G)	ZF approval number
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL HD DRIVE AXLE OIL	ZF002162
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF POWERFLUID C-PLUS (GOLD 1)	ZF002087
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF POWERFLUID PLUS	ZF005995

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.

In addition, the following trade products may be used:

Manufacturer (21M)

PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH
PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH
PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH

Trade name (21M)

SHELL PANOLIN S4 HLP SYNTH 32
SHELL PANOLIN S4 HLP SYNTH 46
SHELL PANOLIN S4 HLP SYNTH 68

ZF approval number

ZF012032
ZF012033
ZF012034

Lubricant class 21N

Transmission oil with limited-slip additives

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

Manufacturer (21N)

AVIA AG, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 KROON-OIL B.V., ALMELO/NL
 MORRIS LUBRICANTS, SHREWSBURY/GB
 MOTOREX AG, LANGENTHAL/CH
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PHI OIL GMBH, ST. GEORGEN/AT
 ROCK OIL, WARRINGTON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 WILHELM HOYER B.V. & CO. KG, VISSELHÖVEDE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Trade name (21N)

AVIA POWERTRAIN PLUS AX-LS 80W-90
 TECTROL MULTIGEAR LS 90 LV
 CHAMPION OEM SPECIFIC 80W-90 LS GL 5 ZF-N
 CHAMPION OEM SPECIFIC 85W-90 LS GL 5 ZF-N
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 AVIATICON HYPOID LS PLUS 80W-90
 TITAN SUPERGEAR LS SAE 80W-90
 GEARLUBE LS 80W-90
 TERRAIN LS 80W-90
 MOTOREX YORK LS UNIVERSAL SAE 80W/90
 UNIVERSAL GEAR EP LS SAE 80W-90
 SUPERGEAR BRONZE 80W90 LS
 SD LS 80W-90
 SRS WIOLIN RSH PLUS 80W-90
 TONGYI 80W-90
 DYNATRANS DAX 80W-90
 HOYER GEAR M-LS+ 80W-90
 WOLF OFFICIALTECH 80W-90 LS GL 5 ZF-N
 WOLF OFFICIALTECH 85W-90 LS GL 5 ZF-N
 DIVINOL MULTI-AXLE LS 80W90

ZF approval number

ZF012202
 ZF009443
 ZF011947
 ZF012199
 ZF009436
 ZF010924
 ZF011990
 ZF011976
 ZF008289
 ZF009458
 ZF010985
 ZF011905
 ZF010992
 ZF012016
 ZF010297
 ZF009472
 ZF012020
 ZF009422
 ZF011995
 ZF011930
 ZF012185
 ZF010462

Lubricant class 21Q

Multi-purpose grease according to the specification / requirement:

- DIN 51825 classification KP2K-30 and/or
ISO 6743-9 classification ISO-L-XCCEB2 or
ISO 6743-9 classification ISO-L-XCCHB2
- Base oil: mineral or synthetic hydrocarbons (no ester)
- Thickener type: Ca, Li (simple, mixed, complex soap)
- Consistency class: NLGI 2
- EP additives
- Temperature operation limits: min. -30°C to +120°C

Note:

All commercial products that meet the above specifications/requirements may be used.

There will be no product listing.

At outside temperatures above -20°C, greases with the following classification may also be used:

DIN 51825 classification KP2K-20 and/or
ISO 6743-9 classification ISO-L-XBCEB2 or
ISO 6743-9 classification ISO-L-XBCHB2