



Industrial Technology

## Tractor axles, transmissions for harvesters and final drives

## List of lubricants TE-ML 21

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The list of lubricants TE-ML 21, **edition 01.07.2026** 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](http://www.aftermarket.zf.com/lubricants).

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

Disclaimer: The lubricants and providers listed herein are presented solely for the purpose of documenting lubricants that were tested for compatibility with our products. This listing does not constitute an endorsement, recommendation, or preference for any of the mentioned lubricants, manufacturers, or providers. The inclusion of any lubricant in this list does not imply that it is superior to other available options, nor does it indicate that other lubricants or providers are unsuitable for use with our products. There may be additional lubricants, manufacturers, or providers — whether known or unknown to us — that are fully compatible or otherwise appropriate. It remains the sole responsibility of each customer to verify and comply with all applicable sanction laws and regulations prior to purchasing any of the mentioned lubricants.

## 1. Approved lubricant classes

Product groups	Lubricant classes <sup>(1)</sup>	
	First fill <sup>(2)</sup>	Service fills <sup>(3)</sup>
<b>Axles</b> APL-300, APL-700 AS-2000, AS-3000	<a href="#">ZF PowerFluid Gear LS</a> 21C / 21N	<a href="#">ZF PowerFluid Gear LS</a> <a href="#">ZF PowerFluid Plus</a> 21C / 21E / 21F / 21G / 21N
TerraSteerAxle (TSA), TerraDriveAxle (TDA)	<a href="#">ZF PowerFluid Gear LS</a> <a href="#">ZF PowerFluid Plus</a> 21C / 21E / 21F / 21G / 21N	<a href="#">ZF PowerFluid Gear LS</a> <a href="#">ZF PowerFluid Plus</a> 21C / 21E / 21F / 21G / 21N
<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	<a href="#">ZF PowerFluid Gear LS</a> <a href="#">ZF PowerFluid Plus</a> 21A / 21C / 21G / 21N	<a href="#">ZF PowerFluid Gear LS</a> <a href="#">ZF PowerFluid Plus</a> 21A / 21C / 21G / 21N
<b>Final drives for harvesters</b> S-800, S-950, S-1050, S-1250	21A	21A

## 2. Oil change intervals








### 2.1 Initial oil change interval

Lubricant classes	21A	<a href="#">ZF PowerFluid Gear LS</a> 21C / 21F / 21N	<a href="#">ZF PowerFluid Plus</a> 21E / 21G
<b>Product groups</b>	<b>Initial oil change interval</b>		
<b>Axles APL, AS, TSA, TDA</b>	-	1500 h <sup>(4)</sup>	1500 h <sup>(4)</sup>
<b>Transmissions for harvesters</b>	500 h	-	-
<b>ZF-half-shafts</b>	500 h	500 h <sup>(4)</sup>	500 h <sup>(4)</sup>
<b>Final drives for harvesters</b>	500 h	-	-

### 2.2 Subsequent oil change interval

Lubricant classes	21A	<a href="#">ZF PowerFluid Gear LS</a> 21C / 21F / 21N	<a href="#">ZF PowerFluid Plus</a> 21E / 21G
<b>Product groups</b>	<b>Subsequent oil change interval</b>		
<b>Axles APL, AS, TSA, TDA</b>	-	1500 h	3000 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 
	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 <sup>(1)</sup>
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

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 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
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL SYNTOGEAR MM 7590	ZF012124
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	ZF000910
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF001320
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 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., HEMIKSEM/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
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR CGA SAE 80W-90	ZF003513
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	ZF001604
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
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF012157

## ZF approval number

EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 V1	ZF012186
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 V1	ZF012252
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF012247
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE	AVIATICON FINKOGEAR PREMIUM 75W-90	ZF002249
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE	AVIATICON FINKOGEAR SUPER 80W-90	ZF002299
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/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
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR	DEVELON AXLE LSD 80W-90	ZF012283
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR	HYUNDAI AXLE LSD 80W-90	ZF012292
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
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90	ZF000069
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL TDL 80W-90	ZF001183
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90	ZF001291
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-140	ZF001997
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90	ZF00199

## ZF approval number

MOTOREX AG, LANGENTHAL/CH	MOTOREX_YORK UNIVERSAL SAE 80W90	ZF006027
MOTOREX AG, LANGENTHAL/CH	MOTOREX_YORK UNIVERSAL CT SAE 80W/90	ZF006108
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK GEAR ZX TP SAE 80W/140	ZF007146
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK UNISYNT ZX SAE 75W90	ZF008207
MOTUL SA, AUBERVILLIERS/FR	MOTUL GEAR SYNTH TDL 75W-90	ZF000825
OEL-BRACK AG, HUNZENSCHWIL/CH	MIDLAND SENSOGEAR 75W-90	ZF003680
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST SYNTH GETRIEBEÖL SAE 75W-90	ZF000491
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST GETRIEBEÖL FE SAE 80W-90 GL4/5	ZF000565
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90	ZF000566
OILFINO MINERALÖL GMBH, PRISDORF/DE	OILFINO VARIUS G 500 80W-90	ZF000741
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR GL-5 80W-90	ZF000502
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR GL-5 80W-90	ZF011288
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR LL 80W-90	ZF011188
ORLEN S.A., GDANSK/PL	LOTOS TITANIS GL-5 80W-90	ZF000923
ORLEN S.A., GDANSK/PL	TITANIS SUPER GL-5 80W-90	ZF001098
ORLEN S.A., GDANSK/PL	LOTOS TITANIS GL-5 80W-90	ZF005949
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	GLOBAL MULTIGEAR TS SAE 75W/90	ZF001224
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	GLOBAL GEAR SA SAE 85W-140	ZF001831
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 85W-140	ZF000778
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON XL SYNTHETIC BLEND 80W-140	ZF002287
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF003389
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 85W-140	ZF003390
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 85W-140	ZF011057
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF011024
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON XL SYNTHETIC BLEND 80W-140	ZF011058
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON SYNTHETIC 75W-90	ZF011913
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON 80W-90	ZF000764
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	TRAXON SYNTHETIC 75W-90	ZF002212
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP 80W90	ZF000772
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP 85W140	ZF000773
PETROGAL S.A., LISBOA/PT	GALP TRANSVEX TDL 85W140	ZF000777
PETROGAL S.A., LISBOA/PT	GALP TRANSVEX TDL 75W90	ZF000980
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP XT 80W90	ZF001981
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR TECH EP-X 80W-90	ZF001665
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR D 75W-90	ZF001591
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR EP-X 80W-90	ZF001499
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF000007
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 140 (SAE 85W-140)	ZF000008
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 90 (SAE 80W-90)	ZF000231
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 80W-90)	ZF000232
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKROS GEAR EP 90 (SAE 80W-90)	ZF000233
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 140 (SAE 85W-140)	ZF000234
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 85W-140)	ZF000235
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W90/LA (SAE 80W-90)	ZF000516
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)	ZF000666
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)	ZF000667
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION X-ROAD (75W-140)	ZF000839
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)	ZF001199
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF001201
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)	ZF001738
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)	ZF003636
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 90 (SAE 80W-90)	ZF003638
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 700 EHD 75W-90	ZF003639
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W 90/LA (SAE 80W-90)	ZF003640
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 90 (SAE 80W-90)	ZF003641
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 80W-90)	ZF003642
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA HYPOIDE 140 (SAE 85W-140)	ZF003647
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA GEAR 135H EP (SAE 85W-140)	ZF003648
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TRW 140 (SAE 85W-140)	ZF003649
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKROS GEAR EP 90 (SAE 80W-90)	ZF003658
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W 90/M-DA (SAE 80W-90)	ZF003659
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 700 EHD 75W-140	ZF003685
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 85W-140	ZF003696
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 80W-90	ZF003703
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 85W-140	ZF009901
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA AXLE 300 80W-90	ZF012051
PHI OIL GMBH, ST. GEORGEN/AT	UNIGEAR GOLD 75W90	ZF001203
PHI OIL GMBH, ST. GEORGEN/AT	UNIGEAR GOLD 75W90	ZF003606
PRISTA OIL HOLDING EAD, RUSE/BG	PRISTA EP 90	ZF000378
PRISTA OIL HOLDING EAD, RUSE/BG	PRISTA EP 80W-90	ZF000380
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5	ZF001110
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL SLG SAE 80W-90	ZF005984
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90	ZF006037
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90	ZF006038
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL TDG SAE 75W-110	ZF008351
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP SAE 90	ZF000379
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO FE LD 75W90	ZF000451
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP MULTIGRADO SAE 80W90	ZF000623
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP MULTIGRADO SAE 85W140	ZF001018
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO LD 80W90	ZF001141
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO LD 85W140	ZF001142
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR FE LL 75W-90	ZF008268
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR LL 80W-90	ZF008269
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR LL 85W-140	ZF008270
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR HQ GL-5 80W-90	ZF008271
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR HQ GL-5 85W-140	ZF008272
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR HQ GL-5 SAE 90	ZF008273
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE	ROLF TRANSMISSION S9 AGE 75W-90	ZF003626
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE	ROLF TRANSMISSION M5 A 80W-90	ZF003629
S.I.R.A.L. SPA, NOLA NAPOLI/IT	TRANSMISSION 80W-90 GL5	ZF006100

## ZF approval number

SYN GEAR DIFFERENTIAL OIL 75W-90  
 SHELL SPIRAX S6 AXME 75W-140  
 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 S3 AM 80W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX HD 80W- 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  
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 SHELL SPIRAX S3 AX 80W-90  
 SHELL SPIRAX S6 AXME 75W-140  
 SHELL SPIRAX MB 90  
 SHELL SPIRAX S3 AM 80W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 GEARLUBE HG M2 SAE 80W-90  
 SINOPEC GREATWALL VT 75W90  
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90  
 SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90  
 SRS WOLIIN HYPOID-GETRIEBEÖL 80W-90  
 SRS WOLIIN HYPOID-GETRIEBEÖL 85W-140  
 SRS WOLIIN HYPOID-GETRIEBEÖL 90  
 SRS GETRIEBEFLUID SML 80W-90  
 SRS GETRIEBEFLUID SXL 75W-90  
 SRS WOLIIN HL 5 SAE 80W-90  
 SRS WOLIIN HL 5 SAE 85W-90  
 SRS WOLIIN HGAV 80W-90  
 SRS WOLIIN 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 TRANSSELF 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  
 TRANSSELF TYPE B 85W-140  
 TRAXIUM AXLE 7 80W-90  
 TRAXIUM AXLE 7 80W-90  
 TRANSSELF TYPE B 80W-90  
 TRAXIUM AXLE 9 80W-90  
 TRAXIUM AXLE 9 80W-90  
 TRANSSELF TYPE B 80W-90  
 DYNATRANS HD 80W 90  
 TRAXIUM AXLE 8 FE 80W-140  
 DYNATRANS HD 85W-140  
 TRANSSELF 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  
 HOYER GEAR M-HP 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

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ZF011992  
ZF012144  
ZF003525  
ZF009462  
ZF001684  
ZF001295  
ZF012096





**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  
 HITACHI CONSTRUCTION MACHINERY EUROPE NV, AMSTERDAM/NL  
 HUILES BERLIET S.A., SAINT-PIERRE/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  
 LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE  
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT  
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT  
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT  
 MOEVE CLIENT SOLUTIONS, 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  
 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  
 MEGOL HYPOID-GETRIEBEÖL AXLE LS SAE 85W-90  
 LUKOIL GEAR GL-5 LS 85W-90  
 LUKOIL TRANSMISSION LS 80W-90  
 LUKOIL TRANSMISSION LS 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  
 ZF003705  
 ZF008267  
 ZF000424  
 ZF001312  
 ZF002109  
 ZF000845  
 ZF001367  
 ZF001345  
 ZF012151  
 ZF012140  
 ZF012114  
 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
WOLF OIL CORPORATION N.V., HEMIKSEM/BE	WOLF TRACTOFLUID 80W-140	ZF012017

## 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
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UTTO-HF	ZF012209
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UTTO-ZF	ZF012219
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
CLASS KGAA MBH, HARSEWINKEL/DE	CLAAS AGRISHIFT GA 12	ZF012290
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 HYKROL 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	ZF000870
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
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR	XTEER THF 75W-80	ZF002219
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR	DEVELON AXLE GL-4 75W-80	ZF012284
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR	HYUNDAI AXLE GL-4 75W-80	ZF012291
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
JOHN DEERE, MOLINE, ILLINOIS/US	JOHN DEERE HY-GARD FLEX	ZF012272
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, MADETSWIL/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
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30	ZF001344
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL TRAKTORENOEL UTTO	ZF011906
MOEVE CLIENT SOLUTIONS, 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
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	UTTO FLUID 4 D SAE 10W-30	ZF012042

## ZF approval number

ZF000849  
ZF001351  
ZF000544  
ZF000545  
ZF000551  
ZF000944  
ZF001184  
ZF001409  
ZF001461  
ZF001634  
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ZF002075  
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ZF002152  
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ZF000105  
ZF004916  
ZF003380  
ZF004867  
ZF001346  
ZF002222  
ZF008262  
ZF012180  
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