



Transmissions for rail vehicles

List of lubricants TE-ML 16

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1. Approved lubricant classes

Product groups axle gearboxes	Lubricant classes for service fills ⁽³⁾
helical gear drive ^{(1) (3)}	16A / 16B / 16F
helical gear drive ^{(2) (3)} bevel gear drive ^{(1) (3)} hypoid gear drive ^{(1) (3)} helical-bevel gear drive ^{(1) (3)}	16C / 16F
bevel gear drive ^{(2) (3)} hypoid gear drive ^{(2) (3)} helical-bevel gear drive ^{(2) (3)}	16D / 16F
transmissions with multi-disc self-locking differential ⁽³⁾	16E / 16G

Product groups automatic transmissions for rail vehicles	Lubricant classes for service fills ⁽⁴⁾ transmissions without/with ZF - Intarder
ASRail: 12 AS 2303, 12 AS 2703, 12 AS 3103, 16 AS 2603	16K / 16P
Ecomat: HP 500 R, HP 590 R, HP 600 R HP 502 R, HP 592 R, HP 602 R	16M / 16N Automatic Transmission Fluid (ATF) ⁽⁵⁾
Ecomat: HP 902 R	16N
EcoLife 6AP2000R, 6AP2500R	16N / 16Q / 16S
EcoWorld 6AP2004RI, 6AP2504RI	16N / 16Q

The list of lubricants TE-ML 16, **edition 01.07.2020** 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 and filter change interval

Oil change intervals axle gearboxes for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil change interval [km /years] ^{(7) (8) (9)}
16A / 16B / 16C / 16D / 16E	120.000 km / 1x year
16F / 16G	200.000 km / every 2 years

Oil change intervals ASRAIL transmissions

Lubricant classes ⁽⁶⁾	Oil change interval [km /years] ^{(7) (9)}
16K	300.000 km / every 2 years
16P	360.000 km / every 3 years

Oil and filter change interval ECOMAT- transmissions HP 500 R, HP 590 R, HP 600 R, HP 502 R, HP 592 R, HP 602 R for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(9) (10)}
16M	120.000 km / every 2 years
16N	150.000 km / every 3 years

Oil and filter change interval ECOMAT- transmissions HP 902 R for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(9) (10)}
16N	120.000 km / every 3 years

Oil and pressure filter change interval ECOLIFE- transmissions for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(9) (10)}
16S	120.000 km / every 2 years
16N / 16Q	180.000 km / every 3 years

Oil and pressure filter change interval ECOWORLD-transmissions for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(9) (10)}
16N / 16Q	180.000 km / every 3 years

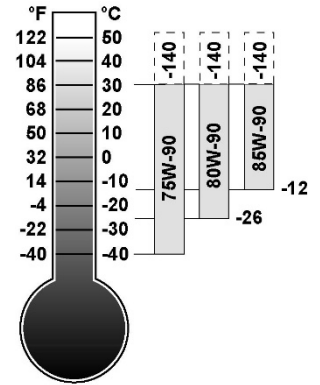
3. Application areas of lubricants

Opposite illustration shows application areas of the various SAE classes in relation to the ambient temperatures to be expected.

The oils have a bottom limit of max. dynamic viscosity (Brookfield) of 150,000 mPas, which roughly corresponds to the viscosity limit at low temperatures.

The upper limit is determined by the load in the transmission and the appearing temperature level during operation. It can be assumed that high ambient temperatures will also result in higher oil sump temperatures.

For detailed information to the low temperature behaviour of the specific product see at the safety data sheet of the oil supplier.



The user has to observe of the low temperature limits!!

Lubricant classes	Viscosity grades	Use at oil sump temperature as over
16B / 16F / 16G / 16K / 16M / 16N / 16P / 16Q / 16S	75W-80 / 75W-85 / 75W-90 / 75W-110 / 75W-140 / ATF	- 40° C
16A / 16B / 16C / 16D / 16E / 16F	80W-85 / 80W-90 / 80W-110 / 80W-140	- 25° C
16A / 16B / 16C / 16D / 16E	85W-90 / 85W-110 / 85W-140 / 90	- 12° C

4. Explanation of footnotes and comments

Footnotes

- (1) Low loaded - Product categorization according to ZF Manual
- (2) High loaded - Product categorization according to ZF Manual
- (3) **Refer to the following pages for approved commercial products and low temperature limits; Pay attention to product specific, approved lubricant classes incl. viscosity classes and oil change intervals according to the ZF manual!**
- (4) **Refer to the following pages for approved commercial products, oil change intervals and low temperature limits.**
- (5) **Particularly recommended:** The fully synthetic ATF known as ZF EcoFluid A Life was developed specifically for use in Ecomat transmissions. The combination of synthetic basic oil on the basis of polyalphaolefin and a specially well balanced package of additives ensures excellent oxidation stability, a very constant friction coefficient, and high-quality protection of all transmission components. As a result of the flat viscosity characteristic curve, the oil is suited for applications in all climate zones, particularly in hot and cold regions.
- (6) Pay attention to approved trade products and lubricant classes.
- (7) Oil change required, depending on what occurs first.
- (8) The manual contains the product-specific data on oil change intervals. After first installation or overhaul of the gearbox, an oil change will be necessary after about 10,000 km.
- (9) After consultation with the Customer Service department of ZF Friedrichshafen AG, Special Driveline Technology, and after an oil analysis has been made (after agreed mileages), longer oil change intervals can be applied to some reference transmissions. The procedure for taking oil samples is described in the respective Service Information.
- (10) Oil and filter change required, depending on what occurs first.

Comments

At greasing points pay attention to the manual!

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.

5. Lubricant classes and approved trade products

Lubricant class 16A

Gear oil

Viscosity grades: SAE 80W-90 / 85W-90 / 90

Manufacturer (16A)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SK LUBRICANTS, SEOUL/KR
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR

Trade name (16A)

ADDINOL GETRIEBEÖL GS 80W-90
 PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 90
 AVISTA PEER EVO GL4 SAE 80W-90
 AVISTA PEER EVO GL4 SAE 85W-90
 SPAREX HP 90 GL-4
 CEPESA TRANSMISIONES 80W-90
 TRANSLUBE LD SAE 90
 GEARTEX EP-4 80W-90
 TOR MULTIPURPOSE GEAR OIL SAE 80W90
 G-TRUCK GL-4 80W-90
 GAZPROMNEFT GL-4 80W-90
 GULF GEAR XP 90
 GULF GEAR XP MAX 90
 GULF GEAR XP DURA MAX 80W-90
 GULF GEAR MZ 90
 GULF GEAR MZ 85W-90
 GULF GEAR XP 80W-90
 GULF GEAR MZ 80W-90
 HP GEAR OIL ZFL 80W 90
 SERVO GEAR ALT 90
 SERVO GEAR HP 80W-90 (T)
 SERVO UNIDRIVE 80W-90
 Q8 T 35 SAE 80W-90
 LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90
 OILFINO VARIUS G 300 SAE 80W-90
 LUKOIL TRANSMISSION MP 85W-90
 PLATINUM GEAR GL-4 80W-90
 LUBRAX TRM 4 SAE 90
 GALP TRANSOIL 80W90
 RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4
 REPSOL CARTAGO EPM 90
 SHELL SPIRAX S3 G 80W-90
 SK GEAR EP 80W-90 ZF
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90
 TOTAL TRANSMISSION GEAR 7 80W-90
 ELF TRANSOLF EP 80W-90
 GEAR EP 80W90

ZF approval number

ZF000701
 ZF000679
 ZF004779
 ZF004792
 ZF001694
 ZF000023
 ZF000801
 ZF002277
 ZF000622
 ZF000525
 ZF000949
 ZF000428
 ZF000471
 ZF000684
 ZF000874
 ZF000875
 ZF000893
 ZF001034
 ZF001526
 ZF001447
 ZF001448
 ZF001449
 ZF002108
 ZF002054
 ZF001999
 ZF000739
 ZF003413
 ZF000500
 ZF001477
 ZF000768
 ZF001109
 ZF000633
 ZF001298
 ZF000715
 ZF000440
 ZF000445
 ZF001772
 ZF002068
 ZF001051

Lubricant class 16B**Gear oil**

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

Manufacturer (16B)**Trade name (16B)****ZF approval number**

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 GX 80 W 90	ZF003620
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL SNA-D 80W-90	ZF000135
ARAL AG, BOCHUM/DE	ARAL GETRIEBEÖL EP PLUS 80W-90	ZF000460
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	PENNASOL HYPOID GEAR OIL GL 5 SAE 90	ZF000680
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	PENNASOL MULTIGRADE HYPOID GEAR OIL GL 5 SAE 80W90	ZF000681
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 PRIME GL4/GL5 SAE 80W-90	ZF004797
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 90 GL-5	ZF001693
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 90 GL-5	ZF002316
BAHRAIN PETROLEUM COMPANY, AWALI/BH	SPAREX EP 80W-90 GL-5	ZF002317
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR PLUS 8090	ZF001160
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA BGP 80W90	ZF004735
BP PLC., LONDON/GB	BP ENERGEGEAR HYPO XL 80W-90	ZF002005
BP PLC., LONDON/GB	BP ENERGEGEAR HYPO 80W-90	ZF001321
BUCHER AG LANGENTHAL, LANGENTHAL/CH	GEAR ZX TP SAE 80W/90	ZF001721
BUCHER AG LANGENTHAL, LANGENTHAL/CH	GEAR OIL HYPOID SAE80W/90	ZF002005
BUCHER AG LANGENTHAL, LANGENTHAL/CH	UNIVERSAL CT SAE 80W/90	ZF003531
BUCHER AG LANGENTHAL, LANGENTHAL/CH	MOTOREX UNIVERSAL SAE 80W90	ZF004730
BUCHER AG LANGENTHAL, LANGENTHAL/CH	YORK 1091 SAE 80W/90	ZF004840
CASTROL LTD, LONDON/GB	CASTROL AXLE LONG DRAIN 80W-90	ZF000229
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 EPX 80W-90	ZF002163
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF004752
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE LONG DRAIN 80W-90	ZF004885
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA TRANSMISIONES EP 80W-90	ZF000084
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	MAN SUPER AXLE 342-M2	ZF000966
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR 80W-90	ZF000812
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP-5 SAE 80W-90	ZF002137
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 80W-90	ZF002270
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR TDL 80W-90	ZF002273
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-5 80W-90	ZF002279
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR CGA SAE 80W-90	ZF003442
CLASS KGAA MBH, HARSEWINKEL/DE	CLAAS AGRISHIFT MT 80W-90	ZF002088
CYCLON HELLAS SA, ATHENS/GR	GEAR EP GL-5 80W-90	ZF001604
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR SUPER GEAR OIL 80W90	ZF000963
EKO ABEE, ATHENS/GR	EKO GEAROL-5 80W-90	ZF003351
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
ENI S.P.A., ROME/IT	ENI ROTRA MP 80W-90	ZF000855
ENI S.P.A., ROME/IT	ENI ROTRA MP 75W-90	ZF003364
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A PLUS 80W-90	ZF000042
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE S 80W-90	ZF000776
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90	ZF003699
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE	AVIATICON FINKOGEAR SUPER 80W-90	ZF002299
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN GEAR HYP LD SAE 80W-90	ZF000645
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN SUPERGEAR MC SAE 80W-90	ZF000722
FUCHS PETROLUB SE, MANNHEIM/DE	GEARWAY G5 80W-90	ZF001036
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN GETRIEBEÖL O-226 80W-90	ZF001195
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	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
GAZPROMNEFT-LUBRICANTS, MOSCOW/RU	WEGO GL-5 80W-90	ZF004842
GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE	OEST GETRIEBEÖL FE SAE 80W-90 GL4/5	ZF000565
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 GEAR DB 80W-90	ZF000879
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LD 80W-90	ZF001134
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LD 80W-90	ZF001950
HILL CORPORATION, SHYMKENT/KZ	FASTR OIL MTF5 80W-90	ZF003435
HUILES BERLIET S.A., SAINT-PRIEST/FR	RTO LONGEVIA TC ECO 80W-90	ZF001564
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL GTL HD 80W-90	ZF000417
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL TDL 80W-90	ZF000432
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 GEAR OIL XG SAE 80W-90	ZF002103
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 80W-90	ZF002110
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 55 SAE 80W-90	ZF003681
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90	ZF001323
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90	ZF002053
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL TDL 80W-90	ZF001183
MEGUIN GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 80W-90	ZF001998
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL ZF 80W90	ZF001118
MOOVE LUBRICANTS, GRAVESEND/GB	COMMA PRO EP 80W-90	ZF003324
MORRIS LUBRICANTS, SHREWSBURY/GB	EP 80W-90 GEAR OIL	ZF000275
NILS SPA, BURGSTALL/IT	ATOIL LIFT SAE 80W90	ZF004883
NIS AD, NOVI SAD/RS	NISOTEC HIPO LD SAE 80W-90	ZF000490
NIS AD, NOVI SAD/RS	NISOTEC HIPO LD ZF SAE 80W-90	ZF001362
OILFINO MINERALÖL GMBH, PRISDORF/DE	OILFINO VARIUS G 500 80W-90	ZF000741

Manufacturer (16B)

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
 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
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETROL OFISI A.S., ISTANBUL/TR
 PETROMIN CORPORATION, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
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 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PRISTA OIL HOLDING EAD, RUSE/BG
 QATAR LUBRICANTS COMPANY, DOHA/QA
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 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
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 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
 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
 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
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16B)

LUKOIL TRANSMISSION TM-5 SAE 80W-90
 LUKOIL TRANSMISSION TM-5 SAE 85W-90
 LUKOIL TRANSMISSION UNI 80W-90
 LUKOIL TRANSMISSION MN 75W-90
 LUKOIL TRANSMISSION GL-5 80W-90
 LUKOIL TRANSMISSION GL-5 90
 OTOKAR SPECTRA DO Z 80W-90
 PLATINUM GEAR LL 80W-90
 PLATINUM GEAR GL-5 80W-90
 TEBOIL HYPOID SAE 80W-90
 PAZ GEAR LD 80W-90
 TRAXON 80W-90
 TRAXON SYNTHETIC 75W-90
 TRAXON 80W-90
 LUBRAX TRM 5 SAE 90
 GALP TRANSOIL HP 80W90
 GALP TRANSOIL HP XT 80W90
 MAXIGEAR EP-X 80W-90
 MAXIGEAR TECH EP-X 80W-90
 PETROMIN GEAR BOX Z12 SAE 80W90
 ARBOR TRW 90 (SAE 80W-90)
 AMBRA HYPOIDE 90 (SAE 80W-90)
 AKCELA GEAR 135H EP (SAE 80W-90)
 AKROS GEAR EP 90 (SAE 80W-90)
 TUTELA TRANSMISSION W90/LA (SAE 80W-90)
 TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)
 ARBOR TRW 90 (SAE 80W-90)
 AMBRA HYPOIDE 90 (SAE 80W-90)
 TUTELA TRANSMISSION W 90/LA (SAE 80W-90)
 ARBOR TRW 90 (SAE 80W-90)
 AKCELA GEAR 135H EP (SAE 80W-90)
 AKROS GEAR EP 90 (SAE 80W-90)
 TUTELA TRANSMISSION W 90/M-DA (SAE 80W-90)
 PETRONAS TUTELA AXLE 300 80W-90
 PRISTA EP 80W-90
 QALCO SUPER GEAR OIL ZX 80W-90
 RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5
 REPSOL CARTAGO EP MULTIGRADO SAE 80W90
 REPSOL CARTAGO LD 80W90
 ROSNEFT KINETIC HYPOID 80W-90
 ROSNEFT KINETIC HYPOID 85W-90
 ROLF TRANSMISSION M5 A 80W-90
 SHELL SPIRAX S3 AD 80W-90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX HD 80W- 90
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90
 SRS GETRIEBEFLUID SML 80W-90
 SRS WIOLIN HL 5 SAE 80W-90
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
 TEXSA GEAR MULTI GL-5 90
 TEXSA GEAR MULTI GL-5 80W90
 MONTANA DYNAMIC TRACTOGEAR 5 80W90
 TOTAL TRANSMISSION AXLE 9 80W-90
 TOTAL DYNATRANS HD 80W-90
 TRAXIUM DUAL 8 FE 80W-90
 TRAXIUM AXLE 7 80W-90
 GEAR ZF 80W90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 YORK 793 SAE 80W90
 DIVINOL MULTI-AXLE 80W90
 ZF ECOFLUID X SAE 80W-90

ZF approval number

ZF001595
 ZF001596
 ZF002259
 ZF003405
 ZF003408
 ZF003414
 ZF004755
 ZF000311
 ZF000502
 ZF001970
 ZF003437
 ZF000764
 ZF002212
 ZF003389
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 ZF000772
 ZF001981
 ZF001499
 ZF001665
 ZF001966
 ZF000007
 ZF000231
 ZF000232
 ZF000233
 ZF000516
 ZF000666
 ZF001201
 ZF003638
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 ZF003641
 ZF003642
 ZF003658
 ZF003659
 ZF003703
 ZF000380
 ZF002077
 ZF001110
 ZF000623
 ZF001141
 ZF003335
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 ZF001619
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 ZF001621
 ZF002267
 ZF003332
 ZF000441
 ZF000447
 ZF001911
 ZF001342
 ZF001941
 ZF001942
 ZF003665
 ZF001778
 ZF002310
 ZF004817
 ZF004878
 ZF000343
 ZF001837
 ZF001129
 ZF001684
 ZF001266

Lubricant class 16C**Gear oil**

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

Manufacturer (16C)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 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
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PRISTA OIL HOLDING EAD, RUSE/BG
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 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
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR

Trade name (16C)

ADDINOL GETRIEBEÖL GH 85W-90
 ARAL GETRIEBEÖL HYP 85W-90
 AVISTA PEER EVO GL5 SAE 85W-90
 TECTROL MULTIGEAR HYP 90
 BP ENERGEAR HT 80W-90
 BP ENERGEAR HYPO 90
 GEAR ZX TP SAE 80W/140
 CASTROL SYNTRAX UNIVERSAL 80W-90
 CASTROL AXLE EPX 90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 CASTROL TRANSMAX AXLE EPX 85W-90
 CEPSA TRANSMISIONES EP 90
 HYPOID LD SAE 85W-90
 MULTIGEAR EP SAE 90
 GEARTEX EP-5 85W-90
 MULTITHIPO 80W-140 F PLUS
 MOBILUBE HD-A 85W-90
 FUCHS TITAN GEAR HYP SAE 90
 PENTOSIN G5 85W-90
 FUCHS TITAN SUPERGEAR SAE 85W-110
 GAZPROMNEFT SUPER T-3 SAE 85W90
 ROSTSELMASH G-PROFI GRIP GL-5 85W-90
 OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90
 TITANIS SUPER GL-5 80W/140
 GULF GEAR DB 90
 GULF GEAR DB 85W-90
 GULF GEAR HD 85W-90
 INA HIPENOL GTL DB 90
 Q8 T 55 SAE 90
 LIEBHERR GEAR HYPOID 90 EP
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90
 MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 85W-90
 MOL HYKOMOL K 85W90
 LUKOIL TRANSMISSION TM-5 SAE 90
 LUKOIL TRANSMISSION B 85W-90
 TEBOIL HYPOID SAE 80W-140
 PANOLIN TOPGEAR 80W/90
 PANOLIN SUPER DUTY 90
 PANOLIN SUPER DUTY 80W/90
 TUTELA TRANSMISSION STARGEAR AX (SAE 85W-90)
 PRISTA EP 90
 REPSOL CARTAGO EP SAE 90
 SHELL SPIRAX MB 90
 SHELL SPIRAX MB 90
 SHELL SPIRAX S3 AS 80W-140
 SHELL SPIRAX S3 AX 80W-90
 SHELL SPIRAX S3 AM 80W-90
 SRS VIOLIN HYPOID-GETRIEBEÖL 90
 SRS VIOLIN HL 5 SAE 85W-90
 TOTAL TRANSMISSION AXLE 7 85W-90
 ELF TRANSELF TYPE B 90

ZF approval number

ZF000555
 ZF000464
 ZF004793
 ZF001159
 ZF000200
 ZF000828
 ZF001722
 ZF000227
 ZF000265
 ZF002143
 ZF003394
 ZF000097
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 ZF001422
 ZF004921
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 ZF004803
 ZF000566
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 ZF001597
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 ZF000322
 ZF000323
 ZF000479
 ZF001233
 ZF001292
 ZF000444
 ZF001912
 ZF001774
 ZF002069

Lubricant class 16D**Gear oil**

Viscosity grades: 80W-140 / 85W-140 / 140

Manufacturer (16D)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 BAHRAIN PETROLEUM COMPANY, AWALI/BH
 BP PLC., 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
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 ENI S.P.A., ROME/IT
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 INA MAZIVA LTD., ZAGREB/HR
 INGRAX INDUSTRIA E COMERCIO DE GRAXA S/A, DUQUE DE CAXIAS/BR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MORRIS LUBRICANTS, SHREWSBURY/GB
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 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
 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
 QATAR LUBRICANTS COMPANY, DOHA/QA
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 RN-LUBRICANTS, LLC, MOSCOW/RU
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SWD LUBRICANTS GMBH & CO.KG, DUISBURG/DE
 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
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR

Trade name (16D)

ADDINOL GETRIEBEÖL GH 85 W 140
 ARAL GETRIEBEÖL HYP 85W-140
 SPAREX EP 85W-140 GL-5
 BP ENERGEAR HYPO 85W-140
 CASTROL AXLE EPX 85W-140
 CASTROL TRANSMAX AXLE EPX 85W-140
 CEPESA TRANSMISIONES EP 85W-140
 MULTIGEAR PREMIUM EP SAE 85W-140
 DELO GEAR EP-5 SAE 85W-140
 GEARTEX EP-5 85W-140
 ENI ROTRA MP 85W-140
 FUCHS TITAN SUPERGEAR SAE 85W-140
 G-TRUCK GL-5 85W-140
 INA HIPENOL GTL HD 85W-140
 MULTITIGEROL 85W140
 Q8 AXLE OIL XG SAE 80W-140
 Q8 SYNTHETIC GEAR OIL SAE 80W-140
 Q8 T 55 SAE 85W-140
 LIEBHERR HYPOID 85W-140 EP
 MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 85W-140
 EP 85W-140
 LUKOIL TRANSMISSION TM-5 SAE 85W-140
 LUKOIL TRANSMISSION GL-5 85W-140
 GLOBAL GEAR SA SAE 85W-140
 TRAXON 85W-140
 TRAXON XL SYNTHETIC BLEND 80W-140
 TRAXON 85W-140
 LUBRAX TRM-5 SAE 140
 LUBRAX TRM 5 SAE 85W-140
 GALP TRANSOIL HP 85W140
 GALP TRANSVEX TDL 85W140
 ARBOR TRW 140 (SAE 85W-140)
 AMBRA HYPOIDE 140 (SAE 85W-140)
 AKCELA GEAR 135H EP (SAE 85W-140)
 TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)
 TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)
 AMBRA HYPOIDE 140 (SAE 85W-140)
 AKCELA GEAR 135H EP (SAE 85W-140)
 ARBOR TRW 140 (SAE 85W-140)
 PETRONAS TUTELA AXLE 300 85W-140
 QALCO SUPER GEAR OIL ZX 85W-140
 REPSOL CARTAGO EP MULTIGRADO SAE 85W140
 REPSOL CARTAGO LD 85W140
 ROSNEFT KINETIC HYPOID 85W-140
 SHELL SPIRAX S3 AX 85W-140
 SRS WIOLIN HYPOID-GETRIEBEÖL 85W-140
 SWD RHEINOL SYNKROL 5 - SAE 85W140
 TEXSA GEAR MULTI GL-5 85W140
 TOTAL TRANSMISSION AXLE 8 FE 80W-140
 TOTAL TRANSMISSION AXLE 7 85W-140
 TOTAL DYNATRANS HD 85W-140
 YORK 793 SAE 85W140

ZF approval number

ZF003561
 ZF000930
 ZF002318
 ZF000865
 ZF000910
 ZF002145
 ZF000085
 ZF001196
 ZF002254
 ZF002280
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 ZF002076
 ZF001018
 ZF001142
 ZF003336
 ZF001232
 ZF000443
 ZF004746
 ZF001458
 ZF001775
 ZF001846
 ZF004881
 ZF001130

Lubricant class 16E

Gear oil with limited-slip additives

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

Manufacturer (16E)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 AVIA AG, MÜNCHEN/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 INA MAZIVA LTD., ZAGREB/HR
 INDIAN OIL CORPORATION LTD, MUMBAI/IN
 JOHN DEERE, MOLINE, ILLINOIS/US
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PETROGAL S.A., LISBOA/PT
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR

Trade name (16E)

ADDINOL GETRIEBEÖL GH 85W-90 LS
 ARAL GETRIEBEÖL HYP LS 85W-90
 AVIA HYPOID 90 LS
 PENNASOL LIMITED SLIP HYPOID GEAR OIL LS SAE 90
 AVISTA PEER EVO GL5 LS SAE 90
 TECTROL MULTIGEAR LS 90
 TECTROL MULTIGEAR LS 90
 EVOLCA BGX 85W90
 MOTOREX UNIVERSAL LS SAE 90
 CASTROL AXLE Z LIMITED SLIP 90
 CASTROL AXLE Z LIMITED SLIP 90
 CASTROL AXLE Z LIMITED SLIP 85W-90
 CASTROL TRANSMAX LIMITED SLIP Z 85W-90
 GEARTEX LS 85W-90
 GEARTEX LS SAE 85W-140
 MOBILUBE LS 85W-90
 AVIATICON HYPOID LS 90
 FUCHS TITAN GEAR LS SAE 90
 G-TRUCK LS 85W-140
 G-TRUCK LS 85W-90
 LOTOS TITANIS LS GL-5 SAE 85W-140
 GULF GEAR LS 90
 INA HIPENOL GTL LS 90
 SERVO GEAR SUPER LS 90
 JOHN DEERE GL-5 GEAR LUBRICANT W/LS ADD 85W-140
 LIEBHERR GEAR BASIC 90 LS
 MOL HYKOMOL LS 85W140
 MOL HYKOMOL LS 85W90
 POSI-GRIP JDZF 85W140
 OILFINO VARIUS G 400LS 85W-90
 PLATINUM GEAR LS 85W-140
 UNIVERSAL GEAR EP LS SAE 85W/90
 PANOLIN SUPER DUTY LS 90
 GALP TRANSOIL HP LS 90
 AMBRA AXF 80W-90 (SAE 80W-90)
 AKCELA AXLEPOWER (SAE 80W-90)
 AKROS AXLEGEAR 80W-90 (SAE 80W-90)
 SUPERGEAR BRONZE 85W90 LS
 RAVENOL SPERRDIFF.-GETR.-OEL LS 90
 SAVSOL AUTOGEAR 85W140 LIMITED SLIP GL5
 SHELL SPIRAX S3 ALS 85W- 90
 SRS VIOLIN RSH
 TOTAL DYNATRANS DA 85W-140
 TOTAL DYNATRANS DA 80W-90

ZF approval number

ZF000629
 ZF000465
 ZF003689
 ZF000844
 ZF004776
 ZF001167
 ZF004895
 ZF004736
 ZF000727
 ZF000281
 ZF000307
 ZF002044
 ZF002178
 ZF000810
 ZF001686
 ZF000031
 ZF002301
 ZF000651
 ZF000561
 ZF000937
 ZF001135
 ZF000891
 ZF000424
 ZF001445
 ZF001313
 ZF000845
 ZF001075
 ZF001114
 ZF000051
 ZF000740
 ZF001459
 ZF000027
 ZF000396
 ZF003410
 ZF000546
 ZF000781
 ZF000782
 ZF001004
 ZF001180
 ZF001857
 ZF004813
 ZF000442
 ZF001512
 ZF002309

Lubricant class 16F

Gear oil (synthetic)

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

Manufacturer (16F)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 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
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ENI S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HUILES BERLIET S.A., SAINT-PIERRE/FR
 INA MAZIVA LTD., ZAGREB/HR
 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
 MOL-LUB KFT, ALMASFUZITO/HU
 MOOVE LUBRICANTS, GRAVESEND/GB
 MOTUL SA, AUBERVILLIERS/FR
 NIS AD, NOVI SAD/RS
 OEL-BRACK AG, HUNZENSCHWIL/CH
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOil AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 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
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL ENERGY, JOHANNESBURG/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
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 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

Trade name (16F)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
 ARAL GETRIEBEÖL SNA-E 75W-90
 EMGARD UAF 4209
 EMGARD RW-A, SAE 75W-90
 EMGARD HP 75W-90
 EMGARD UAF 7105
 EVOLCA SGP 75W90
 BP ENERGEGEAR SHX-M 75W-90
 UNISYNT ZX SAE 75W90
 PENTA TL SAE 75W/90
 SYNTRAX UNIVERSAL PLUS 75W-90
 CASTROL TRANSMAX UNIVERSAL LL 75W-90
 CEPSA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO SYN-GEAR XS 75W-140
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 TOR UNI GEAR 75W110 LD
 MULTHIPO 75W-90 SINT
 ENI ROTRA LSX 75W-90
 MOBILUBE 1 SHC 75W-90
 MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90
 MOBIL DELVAC SYNTHETIC GEAR OIL 80W-140
 MOBIL DELVAC 1 GEAR OIL 75W-90
 MOBIL DELVAC 1 GEAR OIL 80W-140
 AVIATICON FINKOGEAR PREMIUM 75W-90
 FUCHS TITAN CYTRAC HSY SAE 75W-90
 FUCHS TITAN CYTRAC RR SAE 75W-90
 GEARWAY S5 75W-90
 FUCHS TITAN CYTRAC TD SAE 75W-90
 G-BOX GL-4/GL-5 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 TITANIS SUPER GL-5 75W/90
 GULF YONGEAR 75W-90
 RTO LONGEVIA TCX ECO 75W-90
 INA HIPENOL SHD 75W-90
 Q8 TRANS XGS 75W-90
 Q8 TRANS XGR 75W-140
 Q8 T 66 SAE 75W-110
 LIEBHERR SYNTOGEAR PLUS 75W-90
 LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
 MOL HYKOMOL TDL 75W90
 COMMA PRO EP 75W-90 TDL
 MOTUL GEAR SYNTH TDL 75W-90
 NISOTEC HIPO SINT TDL SAE 75W-90
 MIDLAND SENSOGEAR 75W-90
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 LUKOIL TRANSMISSION UNI S 75W-90
 TEBOil HYPOID SAE 75W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 PANOLIN SUPER DUTY SYNTH 75W/140
 PANOLIN SUPER DUTY SYNTH 75W/90
 GALP TRANSVEX TDL 75W90
 MAXIGEAR D 75W-90
 TUTELA TRANSMISSION X-ROAD (75W-140)
 TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 PETRONAS TUTELA AXLE 700 EHD 75W-90
 PETRONAS TUTELA AXLE 700 EHD 75W-140
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 RAVENOL TDG 75W-110
 REPSOL CARTAGO FE LD 75W90
 ROLF TRANSMISSION S9 AGE 75W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S 75W-140
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 ADME 75W- 90
 SHELL SPIRAX S6 AXME 75W-140
 SINOPEC GREATWALL VT 75W/90
 SRS GETRIEBEFLUID SXL 75W-90
 ELF TRANSELF SYNTHSE FE 75W-90
 TOTAL TRANSMISSION DUAL 9 FE 75W-90
 VALVOLINE HEAVY DUTY TDL PRO 75W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 75W-140
 NESTE PRO AXLE TDL 75W-90
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90

ZF approval number

ZF002260
 ZF000142
 ZF000363
 ZF000917
 ZF001716
 ZF001876
 ZF004734
 ZF000208
 ZF000354
 ZF003411
 ZF001471
 ZF002144
 ZF000086
 ZF000965
 ZF003554
 ZF002274
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 ZF000829
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 ZF000763
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 ZF001438
 ZF000451
 ZF003626
 ZF000702
 ZF000016
 ZF001262
 ZF001380
 ZF001433
 ZF003334
 ZF004860
 ZF000527
 ZF001655
 ZF001555
 ZF001771
 ZF001283
 ZF001874
 ZF003631
 ZF001629
 ZF003525
 ZF001612

Manufacturer (16F)

YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR

Trade name (16F)

YORK 896 75W90

ZF approval number

ZF000550

Lubricant class 16G

Gear oil with limited-slip additives (synthetic)

Viscosity grades: 75W-90 / 75W-110 / 75W-140

Manufacturer (16G)

ARAL AG, BOCHUM/DE
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
EXXONMOBIL CORPORATION, HOUSTON, TX/US

Trade name (16G)

ARAL GETRIEBEÖL BS-LSX 75W-140
CASTROL SYNTRAX LIMITED SLIP 75W-140
CASTROL TRANSMAX LIMITED SLIP LL 75W-140
GEARLUBE VS 500

ZF approval number

ZF000140
ZF000269
ZF002141
ZF000851

Lubricant class 16K

Gear oil of viscosity grades: SAE 75W-80

Manufacturer (16K)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 BARDAHL ASIA PACIFIC PTE LTD, SINGAPORE/SG
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 DONGFENG COMMERCIAL VEHICLE CO. LTD, HUBEI/CN
 ENI S.P.A., ROME/IT
 EUROPART TRADING GMBH, HAGEN/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MINERVA-OIL SAS, MEUZAC/FR
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTUL SA, AUBERVILLIERS/FR
 OLIPES S.L., CAMPO REAL - MADRID/ES
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROCHINA LUBRICANT COMPANY, BEIJING/CN
 PETROGAL S.A., LISBOA/PT
 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
 PHI OIL GMBH, ST. GEORGEN/AT
 RALOY LUBRICANTES, S.A. DE C.V., SANTIAGO TIANGUISTEN/MX
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 S-OIL CORPORATION, SEOUL/KR
 SASOL ENERGY, JOHANNESBURG/ZA
 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
 SK LUBRICANTS, SEOUL/KR
 TAMOIL ITALIA SPA, MILANO/IT
 TIDE WATER OIL CO. (INDIA) LTD., NAVI MUMBAI/IN
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Trade name (16K)

ADDINOL GETRIEBEÖL GS 75W-80 SL
 ARAL GETRIEBEÖL SNS 75W-80
 SYNMAXTRAN 4000 SAE 75W-80
 TECTROL SYNTOGEAR MA 7580
 MOTOREX PRISMA TF SAE 75W/80
 MOTOREX/YORK PRISMA TF SAE 75W/80
 CASTROL SYNTRANS Z 75W-80
 CASTROL TRANSMAX MANUAL Z 75W-80
 CASTROL SYNTRANS Z 75W-80
 TRANSMAX MANUAL Z 75W-80
 CEPSA TRANSMISIONES FE+LD 75W-80
 DELO SYN-MTF XZ 75W-80
 DELO SYN-MTF XZ 75W-80
 GEAR TDS 75W80
 TOR MT/LD GEAR OIL 75W80
 AVENO TRUCK GEAR LONGLIFE 75W-80
 DFCV-HDT 31
 ENI ROTRA MULTIGEAR 75W-80
 EUROPART SYNTHOGEAR INT. 75W80
 MOBIL DELVAC XHP TRANSMISSION OIL 75W-80
 MOBIL DELVAC 1 TRANSMISSION FLUID 75W-80
 MOBIL DELVAC 1 TRANSMISSION FLUID 75W-80
 AVIATICON GOLD MTF 75W-80
 AVIATICON FINKOGEAR MTF 75W-80
 FUCHS TITAN CYTRAC MAN SYNTH SAE 75W-80
 PENTOSIN TLD 75W-80
 GEARWAY S4 LT 75W-80
 GEARWAY S4 75W-80
 FUCHS TITAN CYTRAC MAT SAE 75W-80
 FUCHS TITAN CYTRAC MAT SAE 75W-80
 KAMAZ G-PROFI SERVICE LINE Z 75W-80
 GULF SYNGEAR FE 75W-80
 GULF SYNGEAR FE 75W-80
 IGOL TRANSGEAR ZF PLUS 75W-80
 INA TRANSMOL HD SAE 75W-80
 Q8 T 60 NTECH SAE 75W-80
 Q8 GEAR OIL V 75W-80
 Q8 T 60 NTECH 75W-80
 LIQUI MOLY TRUCK GETRIEBEÖL HC GL4 SAE 75W-80
 MEGOL PREMIUM GETRIEBEÖL HC GL 4 75W80
 PBH EP 75W-80 LD
 MOL HYKOMOL SYNTRANS 75W80
 MOTUL GEAR SYNTH XD 75W-80
 MAXIGEAR TS 7400 - SAE 75W-80
 LUKOIL TRANSMISSION LDI 75W-80
 LUKOIL TRANSMISSION SYNTH MPV 75W-80
 TEBOIL GEAR MTF-V
 GOLDENGEAR LD PLUS SAE 75W-80
 PAZ TRANS ULTRA 75W-80
 TRAXON SYNTHETIC MTF 75W-80
 LUBRAX GOLD XP SAE 75W-80
 KUNLUN ZFGO 02L
 GALP TRANSVEX TDL ULTRA 75W80
 MAXIGEAR S 75W-80
 PETROMIN GEAR BOX Z2 SAE 75W80
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)
 PETRONAS TUTELA MTF 700 HD 75W-80
 PETRONAS TUTELA MTF 700 HD 75W-80
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)
 GEAR OIL MDV SILVER 75W80
 KRÖNEN TRANSMISSION SYNTHETIC OIL 341
 RAVENOL SSG SPEC SYNT LKW GETRIEBEÖL 75W-80
 REPSOL CARTAGO CAJAS FE LD 75W80
 ROLF TRANSMISSION S7 GE 75W-80
 S-OIL 7 GEAR EP LL
 SYN GEARBOX OIL 75W-80
 SHELL SPIRAX S6 GXME 75W- 80
 SHELL SPIRAX S6 GXME 75W- 80
 SINOPEC GREATWALL MTF 02L 75W-80
 SINOPEC GREATWALL MTF 02L 75W-80
 SK GEAR EP 75W-80 ZF
 TAMOIL TAMGEAR PLUS SAE 75W-80
 VEEDOL MULTIGEAR LD 75W-80
 TOTAL TRANSMISSION GEAR 8 FE 75W-80
 GERION LD 75W80
 NESTE PRO GEAR 75W-80
 VALVOLINE HEAVY DUTY GEAR OIL PRO 75W-80 LD
 NESTE PRO GEAR 75W-80
 VEEDOL GEAR OIL LD 75W-80
 BVX Z 1000 75W-80
 YORK 994
 DIVINOL SYNTHOGEAR INT. 75W80

ZF approval number

ZF000974
 ZF004763
 ZF003331
 ZF001935
 ZF001660
 ZF004756
 ZF000219
 ZF002214
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 ZF003526
 ZF003643
 ZF004783
 ZF004784
 ZF002025
 ZF001042
 ZF000735
 ZF001679

Lubricant class 16M**ATF****Manufacturer (16M)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ALLEGHENY PETROLEUM, WILMERDING, PA/US
 AMSOIL, INC., SUPERIOR, WI/US
 ARAL AG, BOCHUM/DE
 BASF SE, LUDWIGSHAFEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 EXOL LUBRICANTS LTD, WEDNESBURY/GB
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 H. BANTLEON GMBH / GESELLS. D. AVIA, ULM/DE
 HI-TEC OILS, SMITHFIELD/AU
 JOHN DEERE, MOLINE, ILLINOIS/US
 LUBRICATING SPECIALTIES COMPANY, PICO RIVERA/US
 MOTUL SA, AUBERVILLIERS/FR
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 PETROMIN CORPORATION, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 S.I.R.A.L., NOLA NAPOLI/IT
 SASOL ENERGY, JOHANNESBURG/ZA
 SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 TEDEX S.A., WARSZAWA/PL
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 VALVOLINE AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU
 VALVOLINE EUROPE, DORDRECHT/NL

Trade name (16M)

ADDINOL ATF XN HD
 ALTRA SHL EXTENDED DRAIN ZF 20C
 TORQUE-DRIVE SYNTHETIC ATF
 ARAL GETRIEBEÖL ATF LD
 EMGARD 2805
 BP AUTRAN LTF
 BP AUTRAN SYN 295
 ATF VZ
 YORK 886
 CASTROL TRANSMAX Z
 CASTROL TRANSYND
 CASTROL TRANSMAX ATF Z
 TES-295 SYN TRANSMISSION FLUID
 AUTOTRANS ELC
 MOBIL DELVAC SYNTHETIC ATF
 MOBIL DELVAC 1 ATF
 TRANSWAY ATF ULTRA
 FUCHS TITAN ATF 5500
 AVILUB FLUID ATZ 295
 MULTITRANS PLUS ATF
 HD SYNTHETIC TRANSMISSION FLUID
 MV TYPE 20C ATF
 MOTUL ATF HD
 LUKOIL ATF SYNTH MN Z3
 OTOKAR SPECTRA ATF Z
 TEBOIL FLUID ES-MAX
 AUXON III PLUS
 ATF XT III FLUID PLUS
 DURADRIVE HD LONG DRAIN ATF
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 LD
 PETRONAS TUTELA ATF 900 HD
 REPSOL MATIC SINTETICO
 SIROIL ATF MAXIMUM
 SYN TRANSMISSION OIL VI
 DURASHIFT ATF HDLD
 SINOPEC GREATWALL FULLY SYNTHETIC ATF HD S
 SINOPEC GREATWALL SYNTHETIC ATF HD
 TEDEX ATF SYNTHETIC (S)
 LINGXIAN 10+ AUTOMATIC TRANSMISSION FLUID
 HEAVY DUTY ATF PRO ECO PLUS
 VALVOLINE HEAVY DUTY ATF PRO ECO

ZF approval number

ZF004913
 ZF001756
 ZF001841
 ZF000144
 ZF003370
 ZF000195
 ZF000197
 ZF003369
 ZF004907
 ZF000221
 ZF000226
 ZF002158
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 ZF004851
 ZF002208
 ZF003587
 ZF001302
 ZF004737
 ZF001726
 ZF001466
 ZF001748
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 ZF001893
 ZF002003
 ZF004738
 ZF003586
 ZF003709
 ZF001091
 ZF004870
 ZF003345
 ZF003347
 ZF002213
 ZF003378
 ZF003488
 ZF001871

Lubricant class 16N

ATF

Manufacturer (16N)

PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16N)

TUTELA TRANSMISSION ATF 120
SHELL SPIRAX S6 ATF ZM
ZF ECOFLUID A LIFE

ZF approval number

ZF000053
ZF001483
ZF001671

Lubricant class 16P

Gear oil of viscosity grades: SAE 75W-80

Manufacturer (16P)

ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/DE
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 FUCHS PETROLUB SE, MANNHEIM/DE
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16P)

ARAL GETRIEBEÖL SNS-M 75W-80
 ARAL GETRIEBEÖL SNS-M 75W-80
 CASTROL SYNTRANS Z LONG LIFE 75W-80
 CASTROL TRANSMAX MANUAL Z LONG LIFE 75W-80
 CASTROL SYNTRANS Z LONG LIFE 75W-80
 CASTROL TRANSMAX MANUAL Z LONG LIFE 75W-80
 CEPSA TRANSMISIONES Z5 FE+LD 75W80
 FUCHS TITAN CYTRAC ULTRA SYNTH SAE 75W-80
 RTO LONGEVIA BZV ECO 75W-80
 TUTELA TRANSMISSION XT-D 540 (SAE 75W-80)
 TOTAL TRANSMISSION GEAR 9 FE 75W-80
 TRAXIUM GEAR 9 FE 75W-80
 ZF ECOFLUID M SAE 75W-80

ZF approval number

ZF000130
 ZF004762
 ZF000609
 ZF002157
 ZF004748
 ZF004761
 ZF002240
 ZF001457
 ZF001260
 ZF000532
 ZF001773
 ZF004874
 ZF002155

Lubricant class 16Q

Manufacturer (16Q)

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16Q)

ZF ECOFLUID LIFE PLUS

ZF approval number

ZF001719

Lubricant class 16S**ATF****Manufacturer (16S)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ALLEGHENY PETROLEUM, WILMERDING, PA/US
 AMSOIL, INC., SUPERIOR, WI/US
 ARAL AG, BOCHUM/DE
 BASF SE, LUDWIGSHAFEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 EXOL LUBRICANTS LTD, WEDNESBURY/GB
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 H. BANTLEON GMBH / GESELLS. D. AVIA, ULM/DE
 HI-TEC OILS, SMITHFIELD/AU
 JOHN DEERE, MOLINE, ILLINOIS/US
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LUBRICATING SPECIALTIES COMPANY, PICO RIVERA/US
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTUL SA, AUBERVILLIERS/FR
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 PETROMIN CORPORATION, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 S.I.R.A.L., NOLA NAPOLI/IT
 SASOL ENERGY, JOHANNESBURG/ZA
 SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 TAMOIL ITALIA SPA, MILANO/IT
 TEDEX S.A., WARSZAWA/PL
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 VALVOLINE AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU
 VALVOLINE EUROPE, DORDRECHT/NL

Trade name (16S)

ADDINOL ATF XN HD
 ALTRA SHL EXTENDED DRAIN ZF 20C
 TORQUE-DRIVE SYNTHETIC ATF
 ARAL GETRIEBEÖL ATF LD
 EMGARD 2805
 BP AUTRAN LTF
 BP AUTRAN SYN 295
 ATF VZ
 YORK 886
 CASTROL TRANSMAX Z
 CASTROL TRANSYND
 CASTROL TRANSMAX ATF Z
 TES-295 SYN TRANSMISSION FLUID
 AUTOTRANS ELC
 MOBIL DELVAC SYNTHETIC ATF
 MOBIL DELVAC 1 ATF
 TRANSWAY ATF ULTRA
 FUCHS TITAN ATF 5500
 AVILUB FLUID ATZ 295
 MULTITRANS PLUS ATF
 HD SYNTHETIC TRANSMISSION FLUID
 Q8 AUTO 15 S
 MV TYPE 20C ATF
 MOL ATF 295
 MOTUL ATF HD
 LUKOIL ATF SYNTH MN Z3
 OTOKAR SPECTRA ATF Z
 TEBOIL FLUID ES-MAX
 AUXON III PLUS
 ATF XT III FLUID PLUS
 DURADRIVE HD LONG DRAIN ATF
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 LD
 PETRONAS TUTELA ATF 900 HD
 REPSOL MATIC SINTETICO
 SIROIL ATF MAXIMUM
 SYN TRANSMISSION OIL VI
 DURASHIFT ATF HDLD
 SINOPEC GREATWALL FULLY SYNTHETIC ATF HD S
 SINOPEC GREATWALL SYNTHETIC ATF HD
 TAMOIL ATF LONG LIFE HD
 TEDEX ATF SYNTHETIC (S)
 LINGXIAN 10+ AUTOMATIC TRANSMISSION FLUID
 HEAVY DUTY ATF PRO ECO PLUS
 VALVOLINE HEAVY DUTY ATF PRO ECO

ZF approval number

ZF004913
 ZF001756
 ZF001841
 ZF000144
 ZF003370
 ZF000195
 ZF000197
 ZF003369
 ZF004907
 ZF000221
 ZF000226
 ZF002158
 ZF002298
 ZF001685
 ZF001234
 ZF001827
 ZF001330
 ZF001797
 ZF002288
 ZF001669
 ZF004851
 ZF001635
 ZF002208
 ZF003361
 ZF003587
 ZF001302
 ZF004737
 ZF001726
 ZF001466
 ZF001748
 ZF004791
 ZF001893
 ZF002003
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 ZF003378
 ZF003488
 ZF001871