



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	16L / 16M / 16N Automatic Transmission Fluid (ATF) ⁽⁵⁾
Ecomat: HP 902 R	16N
EcoLife 6AP2000R, 6AP2500R	16N / 16Q / 16R / 16S
EcoWorld 6AP2004RI, 6AP2504RI	16N / 16Q / 16R / 16S

<p>The list of lubricants TE-ML 16, edition 01.10.2018 replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.zf.com/lubricants.</p>	<p>ZF Friedrichshafen AG D-88038 Friedrichshafen www.zf.com/contact</p>
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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] ^{(7) (9)}
16L	60.000 km / every 2 years
16M	120.000 km / every 2 years
16N	150.000 km / every 3 years

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

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(7) (9)}
16R	60.000 km / 1x year
16S	120.000 km / every 3 years
16N / 16Q	180.000 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] ^{(7) (9)}
16Q	180.000 km / every 3 years

The above oil change intervals only apply to complete fills. If oil is changed to another class of lubricant, the following oil and filter change intervals apply:

Changing class of lubricant from	Oil and filter change interval [km /years] ⁽⁷⁾
16L => 16M / 16R => 16S	90.000 km / every 2 years
16L => 16N / 16R => 16N / 16R => 16Q	120.000 km / every 2 years
16M => 16N	150.000 km / every 3 years

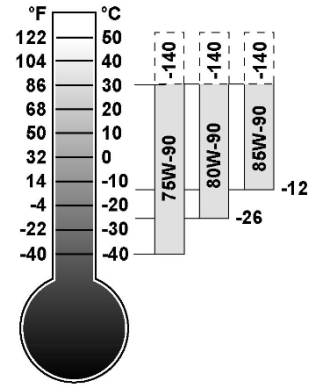
3. Application areas of lubricants

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 / 16L / 16M / 16N / 16P / 16Q	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 or filter 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.

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
 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
 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
 NESTE MARKKINOINTI OY, ESPOO/FI
 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
 SPAREX HP 90 GL-4
 CEPESA TRANSMISIONES 80W-90
 TRANSLUBE LD SAE 90
 GEARTEX EP-A 80W-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
 NESTE GEAR EP 80W-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 TRANSELF EP 80W-90
 GEAR EP 80W90

ZF approval number

ZF000701
 ZF000679
 ZF001694
 ZF000023
 ZF000801
 ZF000804
 ZF002277
 ZF000622
 ZF000525
 ZF000949
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 ZF000768
 ZF001109
 ZF000633
 ZF001298
 ZF000715
 ZF000440
 ZF000445
 ZF001772
 ZF002068
 ZF001051

Manufacturer (16B)

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
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 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
 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
 TEDEX S.A., WARSZAWA/PL
 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
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 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)

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)
 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
 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
 TOTAL TRANSMISSION AXLE 9 80W-90
 TOTAL DYNATRANS HD 80W-90
 GEAR ZF 80W90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90
 YORK 793 SAE 80W90
 DIVINOL MULTI-AXLE 80W90
 ZF-ECOFLUID X SAE 80W-90

ZF approval number

ZF000502
 ZF001970
 ZF003437
 ZF000764
 ZF002212
 ZF003389
 ZF001475
 ZF000772
 ZF001981
 ZF001499
 ZF001665
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 ZF002267
 ZF003332
 ZF000441
 ZF000447
 ZF001911
 ZF001342
 ZF001941
 ZF001942
 ZF001778
 ZF002310
 ZF000343
 ZF001837
 ZF001869
 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
 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
 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
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS
 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
 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
 MOTUL SA, AUBERVILLIERS/FR
 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
 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
 TECTROL MULTIGEAR HYP 90
 BP ENERGEGEAR HT 80W-90
 BP ENERGEGEAR 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
 CEPESA TRANSMISIONES EP 90
 HYPOID LD SAE 85W-90
 GEARTEX EP-B 85W-90
 MULTIGEAR EP SAE 90
 GEARTEX EP-5 85W-90
 MOBILUBE HD-A 85W-90
 MULTIHIPO 80W-140 F PLUS
 FUCHS TITAN GEAR HYP SAE 90
 PENTOSIN G5 85W-90
 PENTOSIN TRX 85W-110
 GAZPROMNEFT SUPER T-3 SAE 85W90
 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-GETRIEBEÖL GL 5 SAE 85W-90
 MOL HYKOMOL K 85W90
 MOTUL TRANS MB 85W-90
 LUKOIL TRANSMISSION TM-5 SAE 90
 LUKOIL TRANSMISSION TM-5 SAE 90
 LUKOIL TRANSMISSION B 85W-90
 OPET FULLGEAR HYP EP MT 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
 ZF001159
 ZF000200
 ZF000828
 ZF001722
 ZF000227
 ZF000265
 ZF002143
 ZF003394
 ZF000097
 ZF000788
 ZF000806
 ZF001243
 ZF002278
 ZF000668
 ZF001749
 ZF000656
 ZF001422
 ZF001532
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 ZF000877
 ZF001151
 ZF000416
 ZF002112
 ZF000846
 ZF000695
 ZF000069
 ZF001113
 ZF000398
 ZF001015
 ZF001597
 ZF001762
 ZF000503
 ZF002039
 ZF000423
 ZF001115
 ZF001117
 ZF001016
 ZF000378
 ZF000379
 ZF000322
 ZF000323
 ZF000322
 ZF000479
 ZF001233
 ZF001292
 ZF000444
 ZF001912
 ZF001774
 ZF002069

Lubricant class 16D

Gear oil

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

Manufacturer (16D)

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
 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
 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
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR

Trade name (16D)

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
 GEARTEX EP-C 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
 MULTIGEROL 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)
 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 VIOLIN HYPOID-GETRIEBEÖL 85W-140
 TEXSA GEAR MULTI GL-5 85W140
 TOTAL TRANSMISSION AXLE 8 FE 80W-140
 TOTAL TRANSMISSION AXLE 7 85W-140
 YORK 793 SAE 85W140

ZF approval number

ZF000930
 ZF002318
 ZF000865
 ZF000910
 ZF002145
 ZF000085
 ZF000808
 ZF001196
 ZF002254
 ZF002280
 ZF000856
 ZF000650
 ZF000557
 ZF000418
 ZF001630
 ZF002102
 ZF002105
 ZF002111
 ZF000847
 ZF001997
 ZF001670
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 ZF003415
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 ZF002287
 ZF003390
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 ZF000773
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 ZF000008
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 ZF000667
 ZF002076
 ZF001018
 ZF001142
 ZF003336
 ZF001232
 ZF000443
 ZF001458
 ZF001775
 ZF001846
 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
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 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 VISSELHÖVEDE/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
 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
 PENNASOL LIMITED SLIP HYPOID GEAR OIL LS SAE 90
 TECTROL MULTIGEAR LS 90
 MOTOREX UNIVERSAL LS SAE 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
 SRS WIOLIN RSH
 TOTAL DYNATRANS DA 85W-140
 TOTAL DYNATRANS DA 80W-90

ZF approval number

ZF000629
 ZF000465
 ZF000844
 ZF001167
 ZF000727
 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
 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
 ARAL AG, BOCHUM/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 BASF SE, LUDWIGSHAFEN/DE
 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
 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
 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
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS
 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
 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-PRIEST/FR
 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
 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
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 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
 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
 SASOL OIL, RANDBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 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
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Trade name (16F)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
 ARAL GETRIEBEÖL SNA-C 75W-90
 ARAL GETRIEBEÖL SNA-E 75W-90
 EMGARD UAF 4209
 EMGARD RW-A, SAE 75W-90
 EMGARD HP 75W-90
 EMGARD UAF 7105
 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
 MULTIGEAR S 75W-90
 MULTIGEAR S 75W-140
 DELO SYN-GEAR XS 75W-140
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 TOR UNI GEAR 75W110 LD
 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
 MULTIHIPO 75W-90 SINT
 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 SYNGEAR 75W-90
 RTO LONGEVIA TCX ECO 75W-90
 SYNTHEGEAR 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
 LUKOIL TRANSMISSION TM-4/5 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 STARGEAR AX-ED (SAE 75W-90)
 TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 RAVENOL TDG 75W-110
 REPSOL CARTAGO FE LD 75W90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 AXME 75W-140
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S 75W-140
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SINOPEC GREATWALL VT 75W/90
 SRS GETRIEBEFLUID AFS
 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
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90
 WOLF OFFICIALTECH 75W90 GL 5

ZF approval number

ZF002260
 ZF000134
 ZF000142
 ZF000363
 ZF000917
 ZF001716
 ZF001876
 ZF000208
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 ZF003411
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 ZF001433
 ZF003334
 ZF000527
 ZF000826
 ZF001655
 ZF001555
 ZF001771
 ZF001283
 ZF001874
 ZF001629
 ZF003525

Manufacturer (16F)

YACCO SAS, ST PIERRE LES ELBEUF/FR
YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
YPF S.A., BUENOS AIRES/AR

Trade name (16F)

BVX 1000 75W-90
YORK 896 75W90
HIPOIDAL SUPER S 75W-90

ZF approval number

ZF001612
ZF000550
ZF003384

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
 BARDAHL ASIA PACIFIC PTE LTD, SINGAPORE/SG
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 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
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
 DAF TRUCKS NV, EINDHOVEN/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
 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
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HAFSA FRANCE, YVETOT/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 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
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PAKELI MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETROMIN CORPORATION, JEDDAH/SA
 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
 S-OIL CORPORATION, SEOUL/KR
 SASOL OIL, RANDBURG/ZA
 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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 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
 SYNMAXTRAN 4000 SAE 75W-80
 TECTROL SYNTOGEAR MA 7580
 MOTOREX PRISMA TF SAE 75W/80
 CASTROL SYNTRANS Z 75W-80
 CASTROL TRANSMAX MANUAL Z 75W-80
 CEPESA TRANSMISIONES FE+LD 75W-80
 MAN SUPER GEAR 75W-80
 MULTIGEAR MTF 75W-80
 MULTIGEAR MTF 75W-80
 DELO SYN-MTF XZ 75W-80
 GEAR TDS 75W80
 DAF PREMIUM 75W-80
 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
 AVIATICON GOLD MTF 75W-90
 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
 GULF SYNGEAR FE 75W-80
 GEARTARDER SAE 75W-80
 TRANS GEAR ZF PLUS 75W80
 INA TRANSMOL HD SAE 75W-80
 Q8 T 60 NTECH SAE 75W-80
 LIQUI MOLY TRUCK GETRIEBEÖL HC GL4 SAE 75W-80
 MEGOL PREMIUM GETRIEBEÖL HC GL 4 75W80
 MOL HYKOMOL SYNTRANS 75W80
 MOTUL GEAR SYNTH XD 75W-80
 LUKOIL TS 7400 - SAE 75W-80
 LUKOIL TRANSMISSION TM-4 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
 LUBRAX GOLD XP SAE 75W-80
 GALP TRANSVEX TDL ULTRA 75W80
 MAXIGEAR S 75W-80
 PETROMIN GEAR BOX Z2 SAE 75W80
 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
 S-OIL 7 GEAR EP LL
 SYN GEARBOX OIL 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
 TOTAL TRANSMISSION GEAR 8 FE 75W-80
 GERION LD 75W80
 VALVOLINE HEAVY DUTY GEAR OIL PRO 75W-80 LD
 VEEDOL GEAR OIL LD 75W-80
 BVX Z 1000 75W-80
 YORK 994
 DIVINOL SYNTHOGEAR INT. 75W80

ZF approval number

ZF000974
 ZF003331
 ZF001935
 ZF001660
 ZF000219
 ZF002214
 ZF000472
 ZF000862
 ZF000813
 ZF001220
 ZF002275
 ZF001040
 ZF002123
 ZF003546
 ZF003558
 ZF000861
 ZF001875
 ZF000089
 ZF001683
 ZF002294
 ZF001140
 ZF001423
 ZF001708
 ZF001710
 ZF003373
 ZF003374
 ZF000683
 ZF000384
 ZF000960
 ZF003344
 ZF000324
 ZF000693
 ZF000394
 ZF001064
 ZF001987
 ZF001439
 ZF001012
 ZF001767
 ZF003412
 ZF003339
 ZF000488
 ZF003387
 ZF001337
 ZF001275
 ZF001590
 ZF001967
 ZF000530
 ZF001386
 ZF000596
 ZF001111
 ZF001673
 ZF001263
 ZF001472
 ZF001481
 ZF002047
 ZF003393
 ZF000779
 ZF001338
 ZF001779
 ZF003526
 ZF001830
 ZF002025
 ZF001042
 ZF000735
 ZF001679

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

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ASTRIS SA, GIORNICO/CH
 BARDAHL ASIA PACIFIC PTE LTD, SINGAPORE/SG
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 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
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 ENI S.P.A., ROME/IT
 ENI S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 HUILES BERLIET S.A., SAINT-PIERST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 IPIRANGA PRODUTOS DE PETRÓLEO SA, RIO DE JANEIRO/BR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LUBRICATION ENGINEERS, INC., FORT WORTH, TEXAS/US
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MORRIS LUBRICANTS, SHREWSBURY/GB
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROMIN CORPORATION, JEDDAH/SA
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROWE MINERALÖLWERK GMBH, WORMS/DE
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TEDEX S.A., WARSZAWA/PL
 TEDEX S.A., WARSZAWA/PL
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNITED OIL COMPANY PTE LTD, SINGAPORE/SG
 VALVOLINE EUROPE, DORDRECHT/NL
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16L)

ADDINOL ATF D II E
 ASTRIS ATF GLOBAL
 SYNMAXTRAN-HD
 LUBEX ATF-III KYS
 LUBEX ATF-III KYS
 ATF TP
 CEPESA ATF 3000 S
 HAVOLINE ATF MERCON V
 SYNTHETIC AUTOMATIC TRANSMISSION FLUID HEAVY DUTY
 DELO SYN ATF HD
 HAVOLINE MULTI-VEHICLE ATF
 ATF ALLPOWER MULTIVEHICULOS
 ENI ROTRA ATF II E
 ENI ROTRA ATF MULTI
 MOBIL ATF SHC
 MOBIL ATF LT 71141
 FUCHS TITAN ATF 5005
 PENTOSIN ATF 1
 TRANSWAY ATF EXTRA
 G-BOX ATF DX III
 G-BOX ATF DX III
 LOTOS ATF SUPER III G
 RTO STARMATIC S3
 ATF 700
 INA ATF EKSTRA
 INA ATF DX IIIH
 ISAMATIC V
 Q8 AUTO 15 ED
 LE 1150
 MOL ATF SYNT
 MOL ATF SYNT 3H
 MULTITRANS ACV
 LUKOIL ATF SYNTH HD
 LUKOIL ATF SYNTH MULTI
 LUKOIL ATF SYNTH MULTI
 LUKOIL ATF SYNTH
 HIPOL ATF II E
 AUXON II E
 DX FLUID II TS
 ATF XT III FLUID
 PANOLIN ATF SUPER VTX
 HEAVY DUTY SYNTHETIC BLEND ATF
 LUBRAX ATF HD
 PETROMIN ATF Z20 ECO
 TUTELA TRANSMISSION STARFLUID PS
 TUTELA TRANSMISSION ATF 90
 ATF D3 GOLD
 TRANSFLUID SYNTHETIC M-5
 RAVENOL DEXRON III H
 REPSOL MATIC III
 REPSOL MATIC LD ATF
 ROWE HIGHTEC ATF 9000
 SHELL SPIRAX S6 ATF VM PLUS
 SHELL SPIRAX S6 ATF VM
 SPIRAX S4 ATF HDX
 SINOPEC GREATWALL ATF III LD
 SINOPEC GREATWALL ATF HD S
 SINOPEC GREATWALL ATF HD
 SRS VIOLIN ATF III MV
 TEDEX SYNTHETIC ATF
 TEDEX ATF III
 LINGXIAN 6+ AUTOMATIC TRANSMISSION FLUID
 TOTAL FLUIDE XLD FE
 TOTAL FLUIDMATIC SYN
 ELF ELFMATIC G3 SYN
 UNITED MV 99
 VALVOLINE HEAVY DUTY ATF PRO LD
 ZF-LIFEGUARDFLUID 5

ZF approval number

ZF000697
 ZF002187
 ZF002246
 ZF002255
 ZF002293
 ZF003609
 ZF000386
 ZF000101
 ZF001219
 ZF001664
 ZF001714
 ZF000385
 ZF000951
 ZF003452
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 ZF000044
 ZF000717
 ZF000734
 ZF001332
 ZF001956
 ZF002221
 ZF000620
 ZF001579
 ZF001833
 ZF000410
 ZF002314
 ZF000896
 ZF002121
 ZF001676
 ZF001155
 ZF001895
 ZF002258
 ZF001125
 ZF001127
 ZF001944
 ZF003407
 ZF000501
 ZF000048
 ZF000376
 ZF001777
 ZF001218
 ZF001236
 ZF002120
 ZF001974
 ZF000993
 ZF001599
 ZF003507
 ZF001025
 ZF001609
 ZF000318
 ZF001751
 ZF001937
 ZF001371
 ZF001463
 ZF001812
 ZF001360
 ZF003346
 ZF003348
 ZF0002061
 ZF001279
 ZF001350
 ZF003377
 ZF001464
 ZF001569
 ZF001582
 ZF003562
 ZF001872
 ZF001363

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

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
 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
 LUBRICATING SPECIALTIES COMPANY, PICO RIVERA/US
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PETROGAL S.A., LISBOA/PT
 PETROMIN CORPORATION, JEDDAH/SA
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 SASOL OIL, RANDBURG/ZA
 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)

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
 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
 MV TYPE 20C ATF
 LUKOIL ATF SYNTH MN Z3
 TEBOIL FLUID ES-MAX
 AUXON III PLUS
 ATF XT III FLUID PLUS
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 LD
 REPSOL Matic SINTETICO
 SYN TRANSMISSION OIL VI
 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

ZF001756
 ZF001841
 ZF000144
 ZF003370
 ZF000195
 ZF000197
 ZF003369
 ZF000221
 ZF000226
 ZF002158
 ZF002298
 ZF001685
 ZF001234
 ZF001827
 ZF001330
 ZF001797
 ZF002288
 ZF001669
 ZF002208
 ZF001302
 ZF001726
 ZF001466
 ZF001748
 ZF001893
 ZF002003
 ZF003586
 ZF001091
 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
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 DAF TRUCKS NV, EINDHOVEN/NL
 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
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16P)

ARAL GETRIEBEÖL SNS-M 75W-80
 CASTROL SYNTRANS Z LONG LIFE 75W-80
 CASTROL TRANSMAX MANUAL Z LONG LIFE 75W-80
 CEPSA TRANSMISIONES Z5 FE+LD 75W80
 DAF XTREME 75W-80
 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
 ZF-ECOFLUID M SAE 75W-80

ZF approval number

ZF000130
 ZF000609
 ZF002157
 ZF002240
 ZF002124
 ZF001457
 ZF001260
 ZF000532
 ZF001773
 ZF002155

Lubricant class 16Q

Manufacturer (16Q)

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16Q)

ZF-ECOFLUID LIFE PLUS

ZF approval number

ZF001719

Lubricant class 16R**Manufacturer (16R)**

ASTRIS SA, GIORNICO/CH
 BARDAHL ASIA PACIFIC PTE LTD, SINGAPORE/SG
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 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
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 ENI S.P.A., ROME/IT
 ENI S.P.A., ROME/IT
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 INA MAZIVA LTD., ZAGREB/HR
 LUBRICATION ENGINEERS, INC., FORT WORTH, TEXAS/US
 MOL-LUB KFT, ALMASFUZITO/HU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROMIN CORPORATION, JEDDAH/SA
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROWE MINERALÖLWERK GMBH, WORMS/DE
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 UNITED OIL COMPANY PTE LTD, SINGAPORE/SG

Trade name (16R)

ASTRIS ATF GLOBAL
 SYNMAXTRAN-HD
 LUBEX ATF-III KYS
 LUBEX ATF-III KYS
 CEPESA ATF 3000 S
 HAVOLINE ATF MERCON V
 SYNTHETIC AUTOMATIC TRANSMISSION FLUID HEAVY DUTY
 DELO SYN ATF HD
 ATF ALLPOWER MULTIVEHICULOS
 ENI ROTRA ATF II E
 ENI ROTRA ATF MULTI
 TRANSWAY ATF EXTRA
 G-BOX ATF DX III
 G-BOX ATF DX III
 INA ATF DX IIIH
 LE 1150
 MOL ATF SYNT 3H
 LUKOIL ATF SYNTH MULTI
 LUKOIL ATF SYNTH MULTI
 AUXON II E
 ATF XT III FLUID
 LUBRAX ATF HD
 PETROMIN ATF Z20 ECO
 ATF D3 GOLD
 TRANSFLUID SYNTHETIC M-5
 RAVENOL DEXRON III H
 REPSOL MATIC III
 REPSOL MATIC LD ATF
 ROWE HIGHTEC ATF 9000
 SINOPEC GREATWALL ATF HD S
 SINOPEC GREATWALL ATF HD
 SRS WIOLIN ATF III MV
 LINGXIAN 6+ AUTOMATIC TRANSMISSION FLUID
 UNITED MV 99

ZF approval number

ZF002187
 ZF002246
 ZF002255
 ZF002293
 ZF000386
 ZF000101
 ZF001219
 ZF001664
 ZF000385
 ZF000951
 ZF003452
 ZF001332
 ZF001956
 ZF002221
 ZF002314
 ZF001676
 ZF001895
 ZF001127
 ZF001944
 ZF000048
 ZF001177
 ZF002120
 ZF001974
 ZF003507
 ZF001025
 ZF001609
 ZF000318
 ZF001751
 ZF001937
 ZF003346
 ZF003348
 ZF002061
 ZF003377
 ZF003562

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

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
 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
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LUBRICATING SPECIALTIES COMPANY, PICO RIVERA/US
 MOL-LUB KFT, ALMASFUZITO/HU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 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
 SASOL OIL, RANDBURG/ZA
 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)

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
 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
 Q8 AUTO 15 S
 MV TYPE 20C ATF
 MOL ATF 295
 LUKOIL ATF SYNTH MN Z3
 TEBOIL FLUID ES-MAX
 AUXON III PLUS
 ATF XT III FLUID PLUS
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 LD
 PETRONAS TUTELA ATF 900 HD
 REPSOL MATIC SINTETICO
 SYN TRANSMISSION OIL VI
 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

ZF001756
 ZF001841
 ZF000144
 ZF003370
 ZF000195
 ZF000197
 ZF003369
 ZF000221
 ZF000226
 ZF002158
 ZF002298
 ZF001685
 ZF001234
 ZF001827
 ZF001330
 ZF001797
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 ZF001669
 ZF001635
 ZF002208
 ZF003361
 ZF001302
 ZF001726
 ZF001466
 ZF001748
 ZF001893
 ZF002003
 ZF003567
 ZF003586
 ZF001091
 ZF003345
 ZF003347
 ZF001672
 ZF002213
 ZF003378
 ZF003488
 ZF001871