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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 (< 105°C)	16Q

The list of lubricants TE-ML 16, **edition 01-JUL-16** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.zf.com/lubricants.

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

2. Oil 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- transmissions HP 902 R for rail vehicles:

Lubricant classes ⁽⁶⁾	Oil and filter change interval [km /years] ^{(7) (9)}
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] ^{(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	90.000 km / every 2 years
16L => 16N	120.000 km / every 2 years
16M => 16N	150.000 km / every 3 years

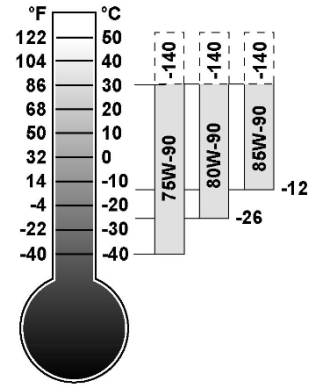
3. Application areas of lubricants

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 REFINING & TRADING DEUTSCHLAN, UETZE/DE
 BAHRAIN PETROLEUM COMPANY, AWALI /BH
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CLAAS KGAA MBH, HARSEWINKEL/DE
 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
 HARMS MINERALÖLE, PRISDORF/DE
 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
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 NESTE MARKKINOINTI OY, ESPOO/FI
 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
 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
 CLAAS AGRISHIFT MT 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
 OILFINO VARIUS G 300 SAE 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
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90
 NESTE GEAR EP 80W-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 EP 85W-90
 TOTAL TRANSMISSION GEAR 7 80W-90
 ELF TRANSELF EP 80W-90
 GEAR EP 80W90

ZF approval number

ZF000701
 ZF000679
 ZF001694
 ZF000023
 ZF000801
 ZF000804
 ZF002074
 ZF000622
 ZF000525
 ZF000949
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 ZF001448
 ZF001449
 ZF000111
 ZF001999
 ZF001080
 ZF000500
 ZF001477
 ZF000768
 ZF001109
 ZF000633
 ZF001298
 ZF000715
 ZF000440
 ZF000445
 ZF001572
 ZF001772
 ZF002068
 ZF001051

Lubricant class 16B**Gear oil**

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

Manufacturer (16B)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/DE
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE
 BAHRAIN PETROLEUM COMPANY, AWALI /BH
 BAHRAIN PETROLEUM COMPANY, AWALI /BH
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES
 CEPSA COMERCIAL PETRÓLEO, MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CYCLON HELLAS SA, ATHENS/GR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GERMAN MIRROR LUBRICANTS AND GREASES, SHARJAH/AE
 GERMAN MIRROR LUBRICANTS AND GREASES, SHARJAH/AE
 GRUPA LOTOS S.A., GDANSK/PL
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HARMS MINERALÖLE, PRISDORF/DE
 HILL CORPORATION, SHYMKENT/KZ
 HUILES BERLIET S.A., SAINT-PIERRE/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MORRIS LUBRICANTS, SHREWSBURY/GB
 NIS AD, NOVI SAD/RS
 NIS AD, NOVI SAD/RS
 NOVA STILMOIL SPA, MODENA/IT
 OMV PETROL OFISI A.S., ISTANBUL/TR
 OMV PETROL OFISI A.S., ISTANBUL/TR
 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
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 OY TEBOIL AB, HELSINKI/FI
 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
 PETROMIN CORPORATION, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PRISTA OIL HOLDING EAD, RUSE/BG
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES

Trade name (16B)

ADDINOL GETRIEBEÖL GH 80W-90
 ADDINOL GETRIEBEÖL GX 80W-90 ML
 ARAL GETRIEBEÖL SNA-D 80W-90
 ARAL GETRIEBEÖL EP PLUS 80W-90
 PENNASOL HYPOID GEAR OIL GL 5 SAE 90
 PENNASOL MULTIGRADE HYPOID GEAR OIL GL 5 SAE 80W90
 SPAREX EP 80W-90 GL-5
 SPAREX EP 90 GL-5
 TECTROL MULTIGEAR PLUS 8090
 BP ENERGEGEAR HYPO XL 80W-90
 BP ENERGEGEAR HYPO 80W-90
 GEAR ZX TP SAE 80W/90
 UNIVERSAL SAE 80W/90
 GEAR OIL HYPOID SAE80W/90
 CASTROL AXLE LONG DRAIN 80W-90
 CASTROL AXLE EPX 80W-90
 CASTROL AXLE EPX 80W-90
 CEPSA TRANSMISIONES EP 80W-90
 MAN SUPER AXLE 342-M2
 GEARTEX EP-C 80W-90
 MULTIGEAR 80W-90
 RPM UNIVERSAL GEAR LUBRICANT SAE 80W-90
 GEAR EP GL-5 80W-90
 TOR SUPER GEAR OIL 80W90
 PENTOSIN GETRIEBEÖL O-226 80W-90
 MOBILUBE HD-A PLUS 80W-90
 MOBILUBE S 80W-90
 MULTIHIPO PLUS 80W-90
 MULTIHIPO 80W-90 F PLUS
 FUCHS TITAN GEAR HYP LD SAE 80W-90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 G-TRUCK GL-4/GL-5 80W-90
 G-TRUCK GL-5 80W-90
 GAZPROMNEFT GL-5 80W-90
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 MIRR GEAR OIL API GL-5 SAE 80W90
 MIRR GEAR OIL API GL-5 SAE 85W90
 LOTOS TITANIS GL-5 80W-90
 TITANIS SUPER GL-5 80W-90
 GULF GEAR TDL 80W-90
 GULF GEAR DB 80W-90
 GULF GEAR LD 80W-90
 GULF GEAR LD 80W-90
 OILFINO VARIUS G 500 80W-90
 FASTROIL TRANSMISSION I 80W-90 GL-5
 RTO LONGEVIA TC ECO 80W-90
 GEAR M 80W-90
 INA HIPENOL GTL HD 80W-90
 INA HIPENOL TDL 80W-90
 Q8 GEAR OIL XG SAE 80W-90
 Q8 T 55 SAE 80W-90
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
 MEGOL HYPOID-GETRIEBEOEL GL 5 SAE 80W-90
 MOL HYKOMOL ZF 80W90
 EP 80W-90 GEAR OIL
 NISOTEC HIPO LD SAE 80W-90
 NISOTEC HIPO LD ZF SAE 80W-90
 GEARING PLUS 80W90
 MAXIGEAR EP-X 80W-90
 MAXIGEAR TECH EP-X 80W-90
 LUKOIL TRANSMISSION TM-5 85W-90
 LUKOIL TRANSMISSION TM-5 SAE 80W-90
 LUKOIL TRANSMISSION TM-5 SAE 85W-90
 LUKOIL TRANSMISSION UNI 80W-90
 PLATINUM GEAR LL 80W-90
 PLATINUM GEAR GL-5 80W-90
 TEBOIL HYPOID SAE 80W-90
 TRAXON 80W-90
 LUBRAX TRM 5 SAE 90
 GALP TRANSOIL HP 80W90
 GALP TRANSOIL HP XT 80W90
 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
 RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5
 REPSOL CARTAGO EP MULTIGRADO SAE 80W90
 REPSOL CARTAGO LD 80W90

ZF approval number

ZF000671
 ZF000672
 ZF000135
 ZF000460
 ZF000680
 ZF000681
 ZF001692
 ZF001693
 ZF001160
 ZF000205
 ZF001321
 ZF001721
 ZF002204
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 ZF001768
 ZF000311
 ZF000502
 ZF001970
 ZF000764
 ZF001475
 ZF000772
 ZF001981
 ZF001966
 ZF000007
 ZF000231
 ZF000232
 ZF000233
 ZF000516
 ZF000666
 ZF001201
 ZF000380
 ZF001110
 ZF000623
 ZF001141

Manufacturer (16B)

RN-LUBRICANTS, LLC, MOSCOW/RU
 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
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 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 AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU
 VALVOLINE EMEA, DORDRECHT/NL
 VALVOLINE EMEA, DORDRECHT/NL
 VIAL OIL LTD., FRYAZINO/RU
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16B)

TNK TRANS GIPOID 85W-90
 TNK TRANS GIPOID 80W-90
 ROSNEFT KINETIC 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)
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90
 SRS GETRIEBEFLUID SML 80W-90
 SRS WIOLIN HL 5 SAE 80W-90
 GEARWAY G5 80W-90
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
 TEXSA GEAR MULTI GL-5 90
 TEXSA GEAR MULTI GL-5 80W90
 TOTAL TRANSMISSION XPM 80W-90
 TOTAL TRANSMISSION AXLE 9 80W-90
 GEAR ZF 80W90
 GEAR OIL GL-5 XTREME SAE 80W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90
 CONSOL TRANS LUX 80W-90
 YORK 793 SAE 80W90
 DIVINOL MULTI-AXLE 80W90
 ZF-ECOFUID X SAE 80W-90

ZF approval number

ZF001786
 ZF001787
 ZF001824
 ZF001237
 ZF001352
 ZF001353
 ZF001354
 ZF001619
 ZF001620
 ZF001621
 ZF000441
 ZF000447
 ZF001911
 ZF001036
 ZF001342
 ZF001941
 ZF001942
 ZF000484
 ZF001778
 ZF000343
 ZF001720
 ZF001837
 ZF001869
 ZF000587
 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
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS
 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
 IGOL FRANCE, AMIENS/FR
 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
 RN-LUBRICANTS, LLC, MOSCOW/RU
 ROSTSELMASH HARVESTERS LTD, ROSTOV-ON-DON/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
 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
 CEPESA TRANSMISIONES EP 90
 HYPOID LD SAE 85W-90
 GEARTEX EP-B 85W-90
 MULTIGEAR EP SAE 90
 PENTOSIN G5 85W-90
 PENTOSIN TRX 85W-110
 MOBILUBE HD-A 85W-90
 MULTITHIPO 80W-140 F PLUS
 FUCHS TITAN GEAR HYP SAE 90
 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
 HYPOID B 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
 TNK TRANS GIPOID 85W-90
 ROSTSELMASH G-PROFI GRIP API GL-5 85W-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 WIOLIN HYPOID-GETRIEBEÖL 90
 SRS WIOLIN 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
 ZF000097
 ZF000788
 ZF000806
 ZF001243
 ZF001422
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 ZF001117
 ZF001016
 ZF000378
 ZF000379
 ZF000749
 ZF001839
 ZF000322
 ZF000323
 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
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 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
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 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
 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)

ARAL GETRIEBEÖL HYP 85W-140
 SPAREX EP 85W-140 GL-5
 BP ENERGEGEAR HYPO 85W-140
 CASTROL AXLE EPX 85W-140
 CEPESA TRANSMISIONES EP 85W-140
 GEARTEX EP-C 85W-140
 MULTIGEAR PREMIUM EP SAE 85W-140
 THUBAN GL-5 EP SAE 85W-140
 FUCHS TITAN SUPERGEAR SAE 85W-140
 G-TRUCK GL-5 85W-140
 INA HIPENOL GTL HD 85W-140
 MULTIGEROL 85W140
 Q8 SYNTHETIC GEAR OIL SAE 80W-140
 Q8 AXLE OIL XG 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
 GLOBAL GEAR SA SAE 85W-140
 TRAXON 85W-140
 TRAXON XL SB 80W-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
 TNK TRANS GIPOID 85W-140
 SHELL SPIRAX S3 AX 85W-140
 SRS VIOLIN HYPOID-GETRIEBEÖL 85W-140
 TEXSA GEAR MULTI GL-5 85W140
 TOTAL TRANSMISSION TM 85W-140
 FINA PONTONIC MP 85W-140
 TOTAL EP B 85W-140
 TOTAL TRANSMISSION AXLE 8 FE 80W-140
 TOTAL TRANSMISSION AXLE 7 85W-140
 YORK 793 SAE 85W140

ZF approval number

ZF000930
 ZF001691
 ZF000865
 ZF000910
 ZF000085
 ZF000808
 ZF001196
 ZF001800
 ZF000650
 ZF000557
 ZF000418
 ZF001630
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 ZF000235
 ZF000667
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 ZF001018
 ZF001142
 ZF001784
 ZF001232
 ZF000443
 ZF001458
 ZF001521
 ZF001559
 ZF001573
 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 REFINING & TRADING DEUTSCHLAN, 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
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HARMS MINERALÖLE, PRISDORF/DE
 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
 NOVA STILMOIL SPA, MODENA/IT
 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
 PROFI-TECH GMBH, FRIEDRICHSHAFEN/DE
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 RN-LUBRICANTS, LLC, MOSCOW/RU
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 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
 BP ENERGEAR LIMSLIP 90
 BP ENERGEAR LIMSLIP 90
 MOTOREX UNIVERSAL LS SAE 90
 CASTROL AXLE Z LIMITED SLIP 90
 CASTROL AXLE Z LIMITED SLIP 90
 CASTROL AXLE Z LIMITED SLIP 85W-90
 GEARTEX LS 85W-90
 GEARTEX LS SAE 85W-140
 MOBILUBE LS 85W-90
 ESSO GEAR OIL LSA LS 85W-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
 OILFINO VARIUS G 400LS 85W-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
 GEARING WONDER LS SAE 85W90
 PLATINUM GEAR LS 85W-140
 UNIVERSAL GEAR EP LS SAE 85W/90
 PANOLIN SUPER DUTY LS 90
 GALP 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
 PROFI-CAR PERFORMANCE GEAR SAE 90 LIMITED SLIP LS
 RAVENOL SPERRDIFF.-GETR.-OEL LS 90
 TNK TRANS GIPOID LS SAE 90
 SAVSOL AUTOGEAR 85W140 LIMITED SLIP GL5
 SRS WIOLIN RSH
 TOTAL DYNATRANS DA 85W-140

ZF approval number

ZF000629
 ZF000465
 ZF000844
 ZF001167
 ZF000206
 ZF001953
 ZF000727
 ZF000307
 ZF001951
 ZF002044
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 ZF001686
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 ZF000396
 ZF000775
 ZF000546
 ZF000781
 ZF000782
 ZF001004
 ZF001225
 ZF001180
 ZF000794
 ZF001857
 ZF000442
 ZF001512

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
 BP PLC., LONDON/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL LTD, LONDON/GB
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES
 CEPESA COMERCIAL PETRÓLEO, 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
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEEP OIL TRADING COMPANY LLP, LONDON/GB
 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
 FABRIKA MAZIVA FAM AD, KRUSÉVAC/RS
 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
 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
 MOTUL SA, AUBERVILLIERS/FR
 NIS AD, NOVI SAD/RS
 OMV PETROL OFISI A.S., ISTANBUL/TR
 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
 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
 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
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 VALVOLINE EMEA, DORDRECHT/NL
 VALVOLINE EMEA, DORDRECHT/NL
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB
 VIAL OIL LTD., FRYAZINO/RU
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR

Trade name (16F)

ADDINOL GETRIEBEÖL GH 75W-90 SL
 ARAL GETRIEBEÖL SNA-C 75W-90
 ARAL GETRIEBEÖL SNA-E 75W-90
 EMGARD UAF 4209
 EMGARD RW-A, SAE 75W-90
 EMGARD UAF 7105
 BP ENERGEAR SHX-M 75W-90
 UNISYNT ZX SAE 75W90
 MOTOREX PENTA TL SAE 75W90
 SYNTRAX UNIVERSAL PLUS 75W-90
 CEPESA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 MULTIGEAR S 75W-90
 MULTIGEAR S 75W-140
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 TOR UNI GEAR 75W110 LD
 DRIVE RW FORCE S GL-5 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
 FUCHS TITAN CYTRAC HSY SAE 75W-90
 FUCHS TITAN CYTRAC RR 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 VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)
 MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90
 MOTUL GEAR SYNTH TDL 75W-90
 NISOTEC HIPO SINT TDL SAE 75W-90
 MAXIGEAR D 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
 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
 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
 SINOPEC GREATWALL VT 75W/90
 SRS GETRIEBEFLUID AFS
 SRS GETRIEBEFLUID SXL 75W-90
 GEARWAY S5 75W-90
 TOTAL TRANSMISSION SYN FE 75W-90
 FINA PONTONIC FDL 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
 CONSOL TRANS LUX 75W-90
 BVX 1000 75W-90
 YORK 896 75W90

ZF approval number

ZF000819
 ZF000134
 ZF000142
 ZF000363
 ZF000917
 ZF001876
 ZF000208
 ZF000354
 ZF000578
 ZF001471
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 ZF000451
 ZF000702
 ZF000016
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 ZF001380
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 ZF000826
 ZF001655
 ZF001030
 ZF001514
 ZF001552
 ZF001555
 ZF001771
 ZF001283
 ZF001874
 ZF001629
 ZF000591
 ZF001612
 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
EXXONMOBIL CORPORATION, HOUSTON, TX/US

Trade name (16G)

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

ZF approval number

ZF000140
ZF000269
ZF000851

Lubricant class 16K

Gear oil of viscosity grades: SAE 75W-80

Manufacturer (16K)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES
 CEPESA COMERCIAL PETRÓLEO, 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
 DEEP OIL TRADING COMPANY LLP, LONDON/GB
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE
 DONGFENG COMMERCIAL VEHICLE CO. LTD, HUBEI/CN
 EUROPART TRADING GMBH, HAGEN/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HAFSA FRANCE, YVETOT/FR
 IGOL FRANCE, AMIENS/FR
 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
 OMV PETROL OFISI A.S., ISTANBUL/TR
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 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
 SK LUBRICANTS, SEOUL/KR
 STATOIL LUBRICANTS, STOCKHOLM/SE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 TAMOIL ITALIA SPA, MILANO/IT
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EMEA, 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
 TECTROL SYNTOGEAR MA 7580
 MOTOREX PRISMA TF SAE 75W/80
 CEPESA TRANSMISIONES FE+LD 75W-80
 MAN SUPER GEAR 75W-80
 MULTIGEAR MTF 75W-80
 MULTIGEAR MTF 75W-80
 GEAR TDS 75W80
 TOR MT/LD GEAR OIL 75W80
 DRIVE RW FORCE HS GL-4 75W-80
 PENTOSIN TLD 75W-80
 DFCV-HDT 31
 EUROPART SYNTHOGEAR INT. 75W80
 MOBIL DELVAC XHP TRANSMISSION OIL 75W-80
 MOBIL DELVAC 1 TRANSMISSION FLUID 75W-80
 FUCHS TITAN CYTRAC MAN SYNTH SAE 75W-80
 GULF SYNGEAR FE 75W-80
 GEARTARDER SAE 75W-80
 TRANS GEAR ZF PLUS 75W80
 Q8 T 60 NTECH SAE 75W-80
 LIQUI MOLY TRUCK GETRIEBEÖL HC GL4 SAE 75W-80
 MEGOL PREMIUM GETRIEBEOEL 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
 MAXIGEAR S 75W-80
 LUKOIL TRANSMISSION TM-4 75W-80
 LUKOIL TRANSMISSION LDI 75W-80
 GOLDENGear LD PLUS SAE 75W/80
 PAZ TRANS MAX 75W-80
 LUBRAX GOLD XP SAE 75W-80
 GALP TRANSVEX TDL ULTRA 75W80
 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
 SK GEAR EP 75W-80 ZF
 GEARWAY S4 LT 75W-80
 GEARWAY S4 75W-80
 TAMOIL TAMGEAR PLUS SAE 75W-80
 TOTAL TRANSMISSION MS FE 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
 ZF001935
 ZF001660
 ZF000472
 ZF000862
 ZF000813
 ZF001220
 ZF001040
 ZF000634
 ZF001454
 ZF001423
 ZF001809
 ZF001875
 ZF000899
 ZF001683
 ZF001140
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 ZF000960
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 ZF000693
 ZF000394
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 ZF001064
 ZF001987
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 ZF001779
 ZF000367
 ZF001830
 ZF002025
 ZF001042
 ZF000735
 ZF001679

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

ADDINOL LUBE OIL GMBH, LEUNA/DE
 CEPESA COMERCIAL PETRÓLEO, 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
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 IPIRANGA PRODUTOS DE PETRÓLEO SA, RIO DE JANEIRO/BR
 LUBRICATION ENGINEERS, INC., FORT WORTH, TEXAS/US
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 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
 PETROMIN CORPORATION, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 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
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 TEDEX S.A., WARSZAWA/PL
 TEDEX S.A., WARSZAWA/PL
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 VALVOLINE EMEA, DORDRECHT/NL
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (16L)

ADDINOL ATF D II E
 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
 PENTOSIN ATF 1
 MOBIL ATF SHC
 MOBIL ATF LT 71141
 FUCHS TITAN ATF 5005
 G-BOX ATF DX III
 LOTOS ATF SUPER III G
 RTO STAROMATIC S3
 ATF 700
 INA ATF EKSTRA
 ISAMATIC V
 LE 1150
 MOL ATF SYNT
 MOL ATF SYNT 3H
 LUKOIL ATF SYNTH HD
 LUKOIL ATF SYNTH MULTI
 LUKOIL ATF S
 HIPOL ATF II E
 AUXON II E
 DX FLUID II TS
 ATF XT III FLUID
 PANOLIN ATF SUPER VTX
 HEAVY DUTY SYNTHETIC BLEND ATF
 PETROMIN ATF Z20 ECO
 TUTELA TRANSMISSION STARFLUID PS
 TUTELA TRANSMISSION ATF 90
 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
 SRS WIOLIN ATF III MV
 TRANSWAY ATF EXTRA
 TEDEX SYNTHETIC ATF
 TEDEX ATF III
 TOTAL FLUIDE XLD FE
 TOTAL FLUIDMATIC SYN
 ELF ELFMATIC G3 SYN
 VALVOLINE HEAVY DUTY ATF PRO LD
 ZF-LIFEGUARDFLUID 5

ZF approval number

ZF000697
 ZF000386
 ZF000101
 ZF001219
 ZF001664
 ZF001714
 ZF000385
 ZF000734
 ZF000039
 ZF000044
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 ZF001125
 ZF001127
 ZF001782
 ZF000501
 ZF000048
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 ZF001177
 ZF001218
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 ZF001974
 ZF000993
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 ZF001025
 ZF001609
 ZF000318
 ZF001751
 ZF001937
 ZF001371
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 ZF001350
 ZF001464
 ZF001569
 ZF001582
 ZF001872
 ZF001363

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

ALLEGHENY PETROLEUM, WILMERDING, PA/US
 AMSOIL, INC., SUPERIOR, WI/US
 ARAL AG, BOCHUM/DE
 BP PLC., LONDON/GB
 BP PLC., 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
 HI-TEC OILS, SMITHFIELD/AU
 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
 SASOL OIL, RANDSBURG/ZA
 STATOIL LUBRICANTS, STOCKHOLM/SE
 VALVOLINE EMEA, DORDRECHT/NL

Trade name (16M)

ALTRA SHL EXTENDED DRAIN ZF 20C
 TORQUE-DRIVE SYNTHETIC ATF
 ARAL GETRIEBEÖL ATF LD
 BP AUTRAN LTF
 BP AUTRAN SYN 295
 CASTROL TRANSMAX Z
 CASTROL TRANSYND
 AUTOTRANS ELC
 MOBIL DELVAC SYNTHETIC ATF
 MOBIL DELVAC 1 ATF
 FUCHS TITAN ATF 5500
 MULTITRANS PLUS 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
 SYN TRANSMISSION OIL VI
 TRANSWAY ATF ULTRA
 VALVOLINE HEAVY DUTY ATF PRO ECO

ZF approval number

ZF001756
 ZF001841
 ZF000144
 ZF000195
 ZF000197
 ZF000221
 ZF000226
 ZF001685
 ZF001234
 ZF001827
 ZF001797
 ZF001669
 ZF001302
 ZF001726
 ZF001466
 ZF001748
 ZF001893
 ZF002003
 ZF001091
 ZF001330
 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
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
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
ZF001457
ZF001260
ZF000532
ZF001773
ZF000522

Lubricant class 16Q**Manufacturer (16Q)**

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

Trade name (16Q)

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

ZF approval number

ZF000053
ZF001483
ZF001671