

**Marine transmissions****List of lubricants TE-ML 04**

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1. Approved lubricant classes

Product groups	Lubricant classes for service fills ⁽¹⁾
ZF 4 to ZF 115 with all derived variants M, A, IV, C, TS, ATS, IVTS	04D
ZF 220 to ZF 60500 with all derived variants A, V, IV, C, U, D, NR, NR2, NR2H, NR2B, TS, ATS, VTS, IVTS	04A / 04B / 04C
ZF 23560 to ZF 23860 with all derived variants NR, C, D	04B / 04C
ZF W220 to ZF W93100 with all derived variants C, NR, NC, DS, NR2H	04A / 04B / 04C
ZF W93300 and ZF W103100 with all derived variants	04E / 04F
BW 5 to BW 5300 with all derived variants	04A / 04B / 04C
BW 2356 to BW 2386	04B / 04C
HBW 35 to HBW 630 HSW 90 to HSW 110 HSW 125 to HSW 800 with all derived variants	04D
IRM 40 to IRM 50	04D
IRM 220 to IRM 350	04A / 04B / 04C
ZF SD 10, SD 12	04P
SeaRex 120s, 140s, 160s	Drive oil: 04A / 04B / 04C Hydraulic oil: 04K
ZF AT 400, 2000 to 8000 with all derived variants WM, RT, DM, SM ZF TT 400, 1000 to 8000 ZF SDT 2000 to 6000	Gear box: 04H / 04M Power pack: 04K ⁽²⁾
ZF TT 4000 CP, 5000 CP	Gear box and Power pack: 04H ⁽²⁾
PPD, PPS	04G

The list of lubricants TE-ML 04, **edition 01.01.2017** 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. Explanation of footnotes and comments

- (1) **Refer to the following pages for approved commercial products.**
- (2) For further information (approved greases, oil fill quantities, evaluation of oil condition, etc.) see "Lubricants equivalents list P0166 ZF Krimpen".

A Multipurpose grease classified KP2K-20 acc. to DIN 51825 or ISO-L-XBCHB2 acc. to ISO 6743-9 must be used on greasing points (base oil API Group 1, 2, 3 or 4, EP additives, lithium saponified, temperature use limits min. between -20 and +120° C, NLGI-Class 2).

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.

3. Lubricant classes and approved trade products

Lubricant class 04A

Engine oil in accordance with specification

- API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4

- API SF/SG/SH/SJ/SL/SM

- ACEA categories A/B/E

Viscosity grade: SAE 30, also SAE 40 in hot countries or when oil sump temperatures are above +80°C

Base oil API Group 1 / 2 / 3 / 4

Note:

1. All trade products which satisfy the above specifications may be used. There will be no product listing.
2. For transmissions which are classified according to DNV, fluids of the class 04A may not be used. Instead of this fluids according to classes 04B or 04C may be used.

Lubricant class 04B

Engine oil

Viscosity grade: SAE 30, also SAE 40 in hot countries or when oil sump temperatures are above +80°C

Manufacturer (04B)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 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
 GULF OIL INTERNATIONAL, MUMBAI/IN
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 OOO "PROIZVODSTVO ZAVOD IMENI SHAUMYANA", SAINT-PETERSBURG/RU
 PANOLIN AG, MADETSWIL/CH
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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

Trade name (04B)

ADDINOL TURBO DIESEL MD 305 SAE 30
 ADDINOL TURBO DIESEL MD 405 SAE 40
 URSA TRANS SAE 40
 MOBIL DELVAC 1630 SAE30
 MOBIL DELVAC 1640 SAE40
 FUCHS TITAN UNIVERSAL HD SAE 30 ZF
 FUCHS TITAN UNIVERSAL HD SAE 30
 FUCHS TITAN UNIVERSAL HD SAE 40
 GULF SUPER DUTY LE 30
 INA GORGONELA S 30
 INA SUPER 3 30
 IPIRANGA ULTRAGEAR 40
 IPIRANGA ULTRAGEAR ZF 40
 Q8 MOZART DP SAE 30
 Q8 MOZART DP SAE 40
 M-14D2CE (SAE 40)
 PANOLIN EXTRA DIESEL 30
 LUBRAX TURBO SAE 30
 LUBRAX TURBO SAE 40
 LUBRAX TRM 5 HD SAE 30
 LUBRAX TRM 5 HD SAE 40
 LUBRAX TRM 40
 SHELL RIMULA R3+ 30
 TOTAL CAPRANO TD 30
 TOTAL CAPRANO TD 40
 TOTAL CAPRANO TD 30
 TOTAL CAPRANO TD 40
 TOTAL RUBIA FP 40

ZF approval number

ZF000624
 ZF000625
 ZF000821
 ZF000036
 ZF000037
 ZF000719
 ZF001189
 ZF001190
 ZF001147
 ZF001173
 ZF001468
 ZF001340
 ZF001764
 ZF000095
 ZF000096
 ZF001095
 ZF000393
 ZF000581
 ZF000582
 ZF001174
 ZF001175
 ZF001742
 ZF001618
 ZF000533
 ZF000534
 ZF000538
 ZF000539
 ZF001153

Lubricant class 04C

Engine oil

Viscosity grades: SAE 5W-40 / 10W-40 / 15W-40

Manufacturer (04C)

CHEVRON LUBRICANTS, SAN RAMON, CA/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 MTU FRIEDRICHSHAFEN GMBH, FRIEDRICHSHAFEN/DE
 NOVA STILMOIL SPA, MODENA/IT
 OOO "LLK-INTERNATIONAL", 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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR

Trade name (04C)

DELO 400 LE SAE 15W-40
 MOBIL DELVAC XHP EXTRA 10W-40
 DIESEL ENGINE OIL SAE 15W-40
 ORION SUPER PLUS 15W40
 LUKOIL AVANTGARDE PROFESSIONAL LS 10W-40
 SHELL SIRIUS 15W-40
 SHELL RIMULA R3X 15W-40
 SHELL RIMULA R4 X 15W-40 (CI-4/E7/DH-1)
 SHELL SIRIUS 15W-40
 SHELL RIMULA R6 M 10W-40
 SHELL RIMULA R6 M 10W-40
 TOTAL CAPRANO TDI 15W-40
 TOTAL CAPRANO TDH 15W-40
 TOTAL CAPRANO TDI 15W-40

ZF approval number

ZF001847
 ZF000770
 ZF002002
 ZF000920
 ZF001968
 ZF000436
 ZF000437
 ZF001482
 ZF001484
 ZF001796
 ZF001799
 ZF001256
 ZF001535
 ZF001791

Lubricant class 04D

Automatic Transmission Fluid (ATF)

Manufacturer (04D)

"RS200 MOTOR OIL" PAPANTONIOU S.A., LAKKOMA/GR
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ALEXANDRIA MINERAL OILS COMPANY, ALEXANDRIA/EG
 ALEXANDRIA MINERAL OILS COMPANY, ALEXANDRIA/EG
 ALLEGHENY PETROLEUM, WILMERDING, PA/US
 AMALIE PETROQUIMICA, MADRID/ES
 AMALIE PETROQUIMICA, MADRID/ES
 AMSOIL, INC., SUPERIOR, WI/US
 ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/DE
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE
 AVISTA OIL REFINING & TRADING DEUTSCHLAN, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAĞLAR TIC. VE SAN. A.S., KOCAELI/TR
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 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
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 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
 EUROL B.V., NJIVERDAL/NL
 EXOL LUBRICANTS LTD, WEDNESBURY/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
 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
 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
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 GRUPA LOTOS S.A., GDANSK/PL
 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
 HARMS MINERALÖLE, PRISDORF/DE
 HARMS MINERALÖLE, PRISDORF/DE
 HI-TEC OILS, SMITHFIELD/AU
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INGRAX INDUSTRIA E COMERCIO DE GRAXA S/A, DUQUE DE CAXIAS/BR
 IPIRANGA PRODUTOS DE PETRÓLEO SA, RIO DE JANEIRO/BR
 KOCAK PETROL URUNLERI SAN.VE TIC.LTD.STI, KOCAELI/TR
 KOCAK PETROL URUNLERI SAN.VE TIC.LTD.STI, KOCAELI/TR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL

Trade name (04D)

ATF D-IIIG
 ADDINOL ATF D II E
 ADDINOL ATF D II D
 ADDINOL ATF D III
 AMOC POWER
 AMOC POWER PLUS
 ALTRA SHL EXTENDED DRAIN ZF 20C
 ATF DEXRON III
 ATF DEXRON II
 TORQUE-DRIVE SYNTHETIC ATF
 ARAL GETRIEBEÖL ATF LD
 ARAL GETRIEBEÖL ATF 55
 ARAL GETRIEBEÖL ATF 22
 PENNASOL SUPER FLUID ATF 3000
 PENNASOL SUPER FLUID TYP P/CN
 TECTROL ATF 4000
 TECTROL ATF 3000
 LUBEX ATF-II
 BP AUTRAN DX III
 BP AUTRAN LTF
 BP AUTRAN MBX
 BP AUTRAN SYN 295
 ATF SUPER
 CASTROL TRANSMAX DEX III MULTIVEHICLE
 CASTROL TRANSMAX Z
 CASTROL ATF DEX II MULTIVEHICLE
 CASTROL TRANSYND
 CASTROL TRANSMAX ATF Z
 CEPSA ATF 3000 S
 CEPSA ATF 70
 CEPSA ATF 2000S
 HAVOLINE ATF MERCON V
 TEXAMATIC B
 SYNTHETIC AUTOMATIC TRANSMISSION FLUID HEAVY DUTY
 TEXAMATIC 4291
 DELO SYN ATF HD
 HAVOLINE MULTI-VEHICLE ATF
 ATF ALLPOWER MULTIVEHICULOS
 AGIP ATF II D
 AGIP DEXRON III
 EUROL ATF IIIF
 AUTOTRANS ELC
 MOBIL ATF 220
 MOBIL ATF D 21065
 MOBIL ATF SHC
 MOBIL ATF 320
 MOBIL ATF LT 71141
 MOBIL DELVAC SYNTHETIC ATF
 MOBIL DELVAC 1 ATF
 ATF DII
 FUCHS TITAN ATF 5005
 FUCHS TITAN ATF 3000
 FUCHS TITAN ATF 4000
 PENTOSIN ATF 1
 PENTOSIN ATF IIIH
 FUCHS TITAN ATF 5500
 G-BOX ATF DXII
 G-BOX ATF DX III
 LOTOS ATF II D
 LOTOS ATF SUPER III G
 LOTOS ATF II D
 LOTOS ATF IIIG
 GULF ATF DX III H
 GULF ATF DX II
 GULF ATF PC
 OILFINO SPONTE ATF II
 OILFINO SPONTE ATF III
 MULTITRANS PLUS ATF
 RTO STARMATIC 3
 RTO STARMATIC S3
 ATF 700
 IGOL ATF 430
 INA ATF SUPER
 INA ATF DX III
 INA ATF DX IID
 INA ATF EKSTRA
 UNIMATIC D-II PLUS
 ISAMATIC V
 SPEEDOL ATF DEXRON II
 ATF DEXRON S III
 Q8 AUTO 15
 Q8 AUTO 20
 Q8 AUTO 14
 Q8 AUTO 14
 Q8 AUTO 15 ED

ZF approval number

ZF000415
 ZF000697
 ZF000698
 ZF000699
 ZF000699
 ZF001702
 ZF001703
 ZF001756
 ZF001121
 ZF001128
 ZF001841
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 ZF000146
 ZF000147
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 ZF001259
 ZF001579
 ZF001833
 ZF002084
 ZF000248
 ZF000390
 ZF000392
 ZF000410
 ZF000079
 ZF000896
 ZF000979
 ZF001388
 ZF000082
 ZF000083
 ZF000176
 ZF001991
 ZF002121

Manufacturer (04D)

LUBRICATION ENGINEERS, INC., FORT WORTH, TEXAS/US
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTUL SA, AUBERVILLIERS/FR
 MOTUL SA, AUBERVILLIERS/FR
 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
 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
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 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
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROMIN CORPORATION, JEDDAH/SA
 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
 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
 PRISTA OIL HOLDING EAD, RUSE/BG
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 RN-LUBRICANTS, LLC, MOSCOW/RU
 ROWE MINERALÖLWERK GMBH, WORMS/DE
 ROWE MINERALÖLWERK GMBH, WORMS/DE
 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
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 STATOIL LUBRICANTS, STOCKHOLM/SE
 TEDEX S.A., WARSZAWA/PL
 TEDEX S.A., WARSZAWA/PL
 TEDEX S.A., WARSZAWA/PL
 TEDEX S.A., WARSZAWA/PL
 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
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 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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 UNIL OPAL, SAUMUR/FR
 UNIX AUTO, BUDAPEST/HU
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR

Trade name (04D)

LE 1150
 MEGOL HYDRAULIKOEL ATF DEXRON II D
 MOL ATF SYNT
 MOL ATF 3G
 MOL ATF
 MOL ATF SYNT 3H
 MOTUL DEXRON III
 MOTUL DEXRON II D
 ATF DX-3
 LUKOIL ATF SYNTH HD
 LUKOIL ATF SYNTH MULTI
 LUKOIL ATF
 LUKOIL ATF SYNTH MN Z3
 LUKOIL ATF IID
 LUKOIL ATF III
 LUKOIL ATF S
 HIPOL ATF II D
 HIPOL ATF II E
 TEBOIL FLUID ES-MAX
 AUXON II E
 DX FLUID II TS
 ATF XT III FLUID
 AUXON III PLUS
 ATF XT III FLUID PLUS
 PANOLIN ATF SUPER VTX
 HEAVY DUTY SYNTHETIC BLEND ATF
 GALP TRANSMATIC D II
 GALP TRANSMATIC D III
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 ECO
 PETROMIN ATF Z20 LD
 TUTELA TRANSMISSION ATF 120
 TUTELA TRANSMISSION GI/A
 TUTELA TRANSMISSION STARFLUID
 TUTELA TRANSMISSION GI/E
 AKROS MATIC
 ARBOR MTA
 TUTELA TRANSMISSION STARFLUID HD-ED
 TUTELA TRANSMISSION STARFLUID PS
 TUTELA TRANSMISSION ATF 90
 ATF D3 SILVER
 PRISTA ATF
 TRANSLUID SYNTHETIC M-5
 RAVENOL DEXRON III H
 REPSOL MATIC ATF
 REPSOL MATIC ATF
 REPSOL MATIC ATF
 REPSOL MATIC ATF
 REPSOL MATIC III
 REPSOL MATIC LD ATF
 TNK ATF IID
 ROWE HIGHTEC ATF 9000
 ROWE HIGHTEC ATF 8000
 SYN TRANSMISSION OIL VI
 SHELL SPIRAX S2 ATF AX
 SHELL SPIRAX S6 ATF VM PLUS
 SHELL SPIRAX S6 ATF VM
 SHELL SPIRAX S6 ATF ZM
 SPIRAX S4 ATF HDX
 SINOPEC GREATWALL ATF III LD
 SRS WIOLIN ATF D
 SRS WIOLIN ATF III
 SRS WIOLIN ATF III MV
 STATOIL TRANSWAY PS DX III
 TRANSWAY ATF ULTRA
 TRANSWAY ATF EXTRA
 TEDEX SYNTHETIC ATF
 TEDEX ATF III
 TEDEX ATF II D
 TEDEX ATF SYNTHETIC (S)
 TEXSA ATF SUPER
 ELF ELMATIC G3
 GULF ATF HIGH TECH
 TOTAL FLUIDE XLD FE
 TOTAL FLUIDMATIC SYN
 TOTAL FLUIDE AT 42
 ELF ELMATIC G3 SYN
 TOTAL FLUIDE G3
 TOTAL FLUIDE II D
 ELF ELMATIC G3
 TOTAL FLUIDE II D
 TOTAL FLUIDE II D
 TOTAL FLUIDE II D
 MATIC DX III
 MATIC D
 A.Z.MEISTERTEILE AUTOMATIKGETRIEBEÖL F7
 VALVOLINE HEAVY DUTY ATF PRO ECO
 VALVOLINE HEAVY DUTY ATF PRO LD
 VALVOLINE HEAVY DUTY ATF PRO
 ATF III
 YORK 787

ZF approval number

ZF001676
 ZF001992
 ZF001155
 ZF001179
 ZF001251
 ZF001895
 ZF001008
 ZF001104
 ZF001667
 ZF001125
 ZF001127
 ZF001146
 ZF001302
 ZF001759
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 ZF000355
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 ZF001609
 ZF000022
 ZF000222
 ZF000224
 ZF000318
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 ZF001724
 ZF001725
 ZF001010
 ZF001071
 ZF002192
 ZF001871
 ZF001872
 ZF001873
 ZF001610
 ZF000597

Manufacturer (04D)

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (04D)

ZF-LIFEGUARDFLUID 5
ZF ECOFLUID A LIFE

ZF approval number

ZF001363
ZF001671

Lubricant class 04E

Engine oil in accordance with specification

- API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4

- API SF/SG/SH/SJ/SL/SM

- ACEA categories A/B/E

Viscosity grade: SAE 50

Base oil API Group 1 / 2 / 3 / 4

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.

Lubricant class 04F

Gear oil CLP

Viscosity grade: ISO VG 220

Manufacturer (04F)

CASTROL LTD, LONDON/GB
CHEVRON LUBRICANTS, SAN RAMON, CA/US

Trade name (04F)

CASTROL ALPHASYN HG 220
MEROPA 220

ZF approval number

ZF001508
ZF000811

Lubricant class 04G

Gear oil in accordance with specification:

- API GL-5 / MIL-L-2105D
- MIL-PRF-2105E
- SAE J2360

Viscosity grade: SAE 80W-90

Base oil API Group 1 / 2 / 3 / 4

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.

Lubricant class 04H

Gear oil CLP in accordance with DIN 51517-3

Viscosity grade (product groups in accordance with page 1):

- ZF AT, TT, SDT - Gear box L-Drive: ISO VG 100
 - ZF AT, TT, SDT - Gear box Z-Drive: ISO VG 150
 - ZF TT 4000 CP, 5000 CP - Gear box und Power pack: ISO VG 100
- Base oil API Group 1 / 2 / 3 / 4

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.

Lubricant class 04K

Hydraulic oil HLP / HVLP in accordance with DIN 51524-2/-3

Viscosity grade (product groups in accordance with page 1):

- SeaRex: ISO VG 32 / 46

- ZF AT, TT, SDT - Power pack: ISO VG 46

Base oil API Group 1 / 2 / 3 / 4

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.

Lubricant class 04M

Biodegradable oil

Viscosity grade (product groups in accordance with page 1):

- ZF AT, TT, SDT - Gear box L-Drive: ISO VG 100

- ZF AT, TT, SDT - Gear box Z-Drive: ISO VG 150

Manufacturer (04M)

KLÜBER LUBRICATION, MUNICH/DE

KLÜBER LUBRICATION, MUNICH/DE

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB

Trade name (04M)

KLÜBERBIO EG 2-100

KLÜBERBIO EG 2-150

SHELL NATURELLE S4 GEAR FLUID 100

SHELL NATURELLE S4 GEAR FLUID 150

ZF approval number

ZF001732

ZF001733

ZF001792

ZF001793

Lubricant class 04P

Engine oil in accordance with specification

- API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4

- API SF/SG/SH/SJ/SL/SM

- ACEA categories A/B/E

Viscosity grade: SAE 15W-40

Base oil API Group 1 / 2 / 3 / 4

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.