



**Powershift transmissions, type Ecomat ⁽¹⁾,
for buses, trucks, and special vehicles**

List of lubricants TE-ML 14

Table of contents	Page
1. Approved lubricant classes	1
Table 1: Oil and filter change intervals for Ecomat transmissions in buses:	2
Table 2: Oil and filter change intervals for Ecomat transmissions in trucks, off-road equipment and special vehicles:	2
2. Explanation of footnotes and comments	3
3. Lubricant classes and approved trade products	4

1. Approved lubricant classes

Product groups	Lubricant classes for service fills
Ecomat (Oil sump temperatures below 100°C) ⁽³⁾ HP500, HP590, HP600 HP502C, HP552C, HP592C, HP602C, HP504C, HP554C, HP594C, HP604C Ecomat HL (Oil sump temperatures below 100°C) ⁽³⁾ HP900, HP902	14A / 14B / 14C / 14E Automatic Transmission Fluids (ATF) Refer to the following pages for approved commercial products and oil change intervals Particularly recommended: ZF EcoFluid A Life (14E) ⁽²⁾
Ecomat (Oil sump temperatures below 105°C) ⁽⁴⁾ HP502C, HP552C, HP592C, HP602C, HP504C, HP554C, HP594C, HP604C Ecomat HL (Oil sump temperatures below 105°C) ⁽⁴⁾ HP900, HP902	14E Particularly recommended: ZF EcoFluid A Life (14E) ⁽²⁾

The list of lubricants TE-ML 14, **edition 01.04.2024** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under www.aftermarket.zf.com/lubricants.

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

Table 1: Oil and filter change intervals for Ecomat transmissions in buses:

Lubricant class (See overleaf for approved trade products)	Oil and filter change interval [km/year] ⁽⁵⁾
14A	30.000 km 1 x year
14B	60.000 km 1 x every 2 years
14C	120.000 km 1 x every 2 years
14E	150.000 km 1 x every 3 years

Note:

In case of initial oil change transition from an ATF of the lubricants category 14A or 14B to an ATF featuring extended oil change intervals, an interim oil change interval after < 60.000 km/max. 2 years is required.

Table 2: Oil and filter change intervals for Ecomat transmissions in trucks, off-road equipment and special vehicles:

Lubricant class (See overleaf for approved trade products)	Oil and filter change interval [h/year]	
	Normal operating conditions (6), (7), (9)	Tough operating conditions (6), (8), (9)
14A	400 h 1 x year	300 h 1 x year
14B	750 h 1 x year	500 h 1 x year
14C	1500 h 1 x year	1000 h 1 x year
14E	2000 h 1 x every 2 years	1500 h 1 x year

Note:

In case of initial oil change transition from an ATF of the lubricants category 14A or 14B to an ATF featuring extended oil change intervals, an interim oil change interval after < 750h/max. 1 year is required.

2. Explanation of footnotes and comments

Footnotes

- (1) Automatic powershift transmissions, type EcoLife, also refer to List of lubricants TE-ML 20.
- (2) The fully synthetic ATF ZF EcoFluid A Life was specially developed for use in automatic powershift transmissions installed in CVs. 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.
- (3) Transmissions with oil sump temperatures below 100°C.
- (4) Ecomat 2 plus- and Ecomat 4- transmissions with oil sump temperatures above 100°C may only be operated with fluids from the 14E lubricants category. Always use fluids according to 14E in borderline cases or in the case of uncertainty with reference to transmission operation temperature.
- (5) Oil and filter change required, depending on what occurs first. Use only ZF original filter elements, ZF order no. 4139 298 936.
- (6) Oil and filter change required, depending on what occurs first. Use only ZF original filter elements, ZF order no. 4139 298 936. The operating instructions apply in the case of deviating information.
- (7) Standard application: Fire fighting vehicles, construction machinery, and dumpers with high mileage share.
- (8) Extreme applications: Refuse collection vehicles, vehicles featuring high share of off-road use (low mileage share, high level of shift efforts).
- (9) For military applications, the service intervals apply according to document 4237.700.014. Please contact your respectively responsible ZF-Services employee.

Comments

Additives of any kind added **later** to the oil change the oil in a manner that is unpredictable, and they are therefore not permitted. No liability of any kind will be accepted by ZF for any damage resulting from the use of such additives.

3. Lubricant classes and approved trade products

Lubricant class 14A

Manufacturer (14A)

ACPA, ALEXANDRIA/EG
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 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
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 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
 CLASS KGAA MBH, HARSEWINKEL/DE
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 ENI SUSTAINABLE MOBILITY 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
 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
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HILL CORPORATION, SHYMKENT/KZ
 HUILES BERLIET S.A., SAINT-PRIEST/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
 KOCÁK PETROL URUNLERI SAN.VE TIC.LTD.STI, KOCAELI/TR
 KOCÁK 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
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LUBREX FZC, SHARJAH/AE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTUL SA, AUBERVILLIERS/FR
 MOTUL SA, AUBERVILLIERS/FR
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 OILFINO MINERALÖL GMBH, PRISDORF/DE
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN S.A., GDANSK/PL
 ORLEN S.A., GDANSK/PL
 ORLEN S.A., GDANSK/PL
 OY TEBOIL AB, HELSINKI/FI
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 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

Trade name (14A)

ACPA DEX-IIIH
 ADDINOL ATF D II D
 ADDINOL ATF D III
 ADDINOL ATF XN 2
 ADDINOL ATF XN 3
 AMOC POWER
 AMOC POWER PLUS
 AVISTA PEER EVO ATF 3000
 AVISTA PEER EVO ATF 2000
 TECTROL ATF 3000
 TECTROL ATF 4000
 LUBEX ATF-II
 LUBEX ATF-III M
 BELGIN LUBEX ATF II
 BELGIN LUBEX ATF-III M
 CASTROL TRANSMAX ATF DX II MULTIVEHICLE
 CASTROL TRANSMAX ATF DX III MULTIVEHICLE
 CEPESA ATF 70
 CEPESA ATF 2000S
 TEXAMATIC 4291
 AGRISHIFT ATF
 ATF DII
 VALVOLINE HEAVY DUTY ATF D-II
 ENI ROTRA ATF II D
 MOBIL ATF 220
 MOBIL ATF 320
 MOBIL ATF 220
 MOBIL ATF 320
 STATOIL TRANSWAY PS DX III
 FUCHS TITAN ATF 3000
 FUCHS TITAN ATF 4000
 PENTOSIN ATF IIIH
 FUCHS TITAN ATF 4000
 GULF ATF DX III H
 GULF ATF DX II
 GULF ATF PC
 FASTROIL ATF 3
 RTO STARMATIC 3
 IGOL ATF 430
 INA ATF SUPER
 INA ATF DX III
 INA ATF DX IID
 UNIMATIC D-II PLUS
 SPEEDOL ATF DEXRON II
 SPEEDOL ATF DEXRON S III
 Q8 AUTO 20
 Q8 AUTO 14
 Q8 AUTO 14
 Q8 AUTO 15
 Q8 AUTO 23D
 LIEBHERR HYDRAULIC-GEAR ATF
 LIQUI MOLY ATF DEXRON IID
 LIQUI MOLY TOP TEC ATF 1100
 LIQUI MOLY MARINE ATF
 LIQUI MOLY ATF III
 LUBREX DRIVEMAX III
 MEGOL HYDRAULIKOEL ATF DEXRON II D
 MEGOL TRANSMISSION-FLUID ATF III
 MOL ATF 3G
 MOL ATF
 MOTUL DEXRON III
 MOTUL DEXRON II D
 OILFINO SPONTE ATF II
 OILFINO SPONTE ATF III
 HIPOL ATF II D
 PLATINUM GEAR ATF III
 ORLEN OIL GEAR ATF III
 LOTOS ATF II D
 LOTOS ATF II D
 LOTOS ATF IIIG
 TEBOIL FLUID E
 DURADRIVE HD ATF
 GALP TRANSMATIC D II
 GALP TRANSMATIC D III
 ATF DX-3
 TUTELA TRANSMISSION GI/A
 TUTELA TRANSMISSION STARFLUID
 TUTELA TRANSMISSION GI/E
 ARBOL MTA
 TUTELA TRANSMISSION STARFLUID HD-ED
 PETRONAS TUTELA ATF 500 HD
 PETRONAS TUTELA ATF 500 HD
 ATF D3 SILVER
 PRISTA ATF

ZF approval number

ZF004823
 ZF000698
 ZF000699
 ZF003702
 ZF004910
 ZF001702
 ZF001703
 ZF004774
 ZF004775
 ZF004798
 ZF004799
 ZF001031
 ZF004892
 ZF008331
 ZF008387
 ZF003358
 ZF003368
 ZF001939
 ZF002040
 ZF001574
 ZF008242
 ZF001187
 ZF008168
 ZF007174
 ZF000033
 ZF000043
 ZF006029
 ZF006088
 ZF000487
 ZF000720
 ZF000728
 ZF000783
 ZF006024
 ZF000078
 ZF001099
 ZF001349
 ZF003429
 ZF008344
 ZF002315
 ZF000248
 ZF000390
 ZF000392
 ZF000079
 ZF000979
 ZF001388
 ZF000083
 ZF000176
 ZF001991
 ZF002269
 ZF003726
 ZF002119
 ZF002052
 ZF004926
 ZF004927
 ZF004928
 ZF006044
 ZF001992
 ZF004922
 ZF001179
 ZF001251
 ZF001008
 ZF001104
 ZF000736
 ZF000737
 ZF000081
 ZF006002
 ZF011155
 ZF000362
 ZF001043
 ZF001093
 ZF003321
 ZF009442
 ZF000331
 ZF001425
 ZF001667
 ZF000308
 ZF000309
 ZF000481
 ZF000486
 ZF000992
 ZF003635
 ZF004757
 ZF001003
 ZF000355

Manufacturer (14A)

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
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 ROWE MINERALÖLWERK GMBH, WORMS/DE
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SPECOL SP. Z O.O., CHORZOW/PL
 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
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 UNIL OPAL, SAUMUR/FR
 UNITED OIL COMPANY PTE LTD, SINGAPORE/SG
 UNIX AUTO, BUDAPEST/HU
 VALVOLINE EUROPE, DORDRECHT/NL
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Trade name (14A)

REPSOL MATIC ATF
 REPSOL MATIC ATF
 REPSOL MATIC ATF
 REPSOL AUTOMATOR ATF II
 REPSOL AUTOMATOR ATF II
 REPSOL AUTOMATOR ATF II
 REPSOL AUTOMATOR ATF II
 ROLF ATF IID
 ROLF ATF III
 ROLF ATF III
 ROWE HIGHTEC ATF 8000
 SHELL SPIRAX S2 ATF AX
 HIPOSPEC ATF IID
 SRS WIOLIN ATF D
 SRS WIOLIN ATF III
 SRS WIOLIN ATF III
 TEDEX ATF II D
 TEDEX ATF II D
 MONTANA DYNAMIC ATF 2
 MONTANA DYNAMIC ATF 2
 ELF ELFMATIC G3
 FLUIDMATIC D3
 FLUIDMATIC D2
 FLUIDMATIC D2
 FLUIDMATIC D2
 FLUIDMATIC AT 42
 ELFMATIC D2
 MATIC DX III
 MATIC D
 UNITED ATF MV 88
 A.Z. MEISTERTEILE GETRIEBEÖL ATF III
 VALVOLINE HEAVY DUTY ATF PRO
 DIVINOL ATF SPEZIAL R

ZF approval number

ZF000022
 ZF000222
 ZF000224
 ZF008283
 ZF008284
 ZF008285
 ZF003371
 ZF003372
 ZF001938
 ZF005982
 ZF003354
 ZF000438
 ZF000439
 ZF002043
 ZF001207
 ZF003664
 ZF001699
 ZF004886
 ZF006067
 ZF006068
 ZF006069
 ZF008239
 ZF010594
 ZF001010
 ZF001071
 ZF010099
 ZF005996
 ZF001873
 ZF009444

Lubricant class 14B(*) Not approved for special transmissions with ratio $i=5.6-0.83/1.0$

Manufacturer (14B)	Trade name (14B)	ZF approval number
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL ATF XN 5	ZF004911
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	LUBEX ATF-III KYS	ZF002255
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	LUBEX ATF-III KYS	ZF002293
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS ATF III PLUS	ZF008301
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA ATF 3000 S	ZF000386
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN ATF HD	ZF001664
CHEVRON LUBRICANTS, SAN RAMON, CA/US	HAVOLINE MULTI-VEHICLE ATF	ZF001714
CITGO PETROLEUM CORPORATION, HOUSTON/US	CITGO QUATRASYN SYNTHETIC TRANSMISSION FLUID	ZF003690
COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX	ATF ALLPOWER MULTIVEHICULOS	ZF000385
ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT	ENI ROTRA ATF II E	ZF000951
ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT	ENI ROTRA ATF MULTI	ZF003452
ENOC MARKETING LLC, DUBAI/AE	ENOC ACTIVE SYN VVM	ZF005942
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL ATF SHC (*)	ZF000039
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL ATF LT 71141	ZF000044
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN ATF 5005	ZF000717
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN ATF 1	ZF003602
HUILES BERLIET S.A., SAINT-PRIEST/FR	RTO STARMATIC S3	ZF008343
INA MAZIVA LTD., ZAGREB/HR	INA ATF EKSTRA (*)	ZF000410
INA MAZIVA LTD., ZAGREB/HR	INA ATF DX IIIH	ZF002314
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 AUTO 15 ED	ZF002121
MABANOL GMBH & CO. KG, HAMBURG/DE	MABANOL RADON GEAR ATF III MV	ZF004879
MOL-LUB KFT, ALMASFUZITO/HU	MOL ATF SYNT (*)	ZF001155
MOL-LUB KFT, ALMASFUZITO/HU	MOL ATF SYNT 3H	ZF001895
MOL-LUB KFT, ALMASFUZITO/HU	MOL ATF SYNT	ZF004917
MORRIS LUBRICANTS, SHREWSBURY/GB	MULTITRANS ACV	ZF002268
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK ATF TP	ZF006045
OEL-BRACK AG, HUNZENSCHWIL/CH	MIDLAND OMNIMATIC	ZF003682
ORLEN OIL SP. Z O.O., KRAKOW/PL	HIPOL ATF II E	ZF003623
ORLEN S.A., GDANSK/PL	LOTOS ATF SUPER III G	ZF000620
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	AUXON II E	ZF000048
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	DX FLUID II TS (*)	ZF000376
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	ATF XT III FLUID	ZF001177
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA	DURADRIVE HD SYNTHETIC BLEND ATF	ZF004790
PETROLUBE OILS COMPANY, JEDDAH/SA	PETROMIN ATF Z20 ECO	ZF001974
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS TUTELA ATF 700 HD	ZF003627
PHI OIL GMBH, ST. GEORGEN/AT	ATF D3 GOLD	ZF003507
RALOY LUBRICANTES, S.A. DE C.V., SANTIAGO TIANGUISTEN/MX	TRANSFLUID SYNTHETIC M-5	ZF001025
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE	RAVENOL DEXRON III H	ZF001609
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL MATIC III	ZF000318
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL AUTOMATOR ATF III	ZF008281
ROWE MINERALÖLWERK GMBH, WORMS/DE	ROWE HIGHTEC ATF 9000	ZF001937
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S6 ATF VM PLUS	ZF001371
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S6 ATF VM	ZF001463
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SPIRAX S4 ATF HDX	ZF001812
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL ATF III LD	ZF001360
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL ATF HD S	ZF003346
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL ATF HD	ZF003348
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS WIOLIN ATF III MV	ZF002061
TEDEX S.A., WARSZAWA/PL	TEDEX SYNTHETIC ATF (*)	ZF001279
TEDEX S.A., WARSZAWA/PL	TEDEX ATF III	ZF001350
TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN	LINGXIAN 6+ AUTOMATIC TRANSMISSION FLUID	ZF003377
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	ELF ELFMATIC G3 SYN	ZF001582
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	FLUIDMATIC XLD FE	ZF008244
UNITED OIL COMPANY PTE LTD, SINGAPORE/SG	UNITED MV 99	ZF003562
VALVOLINE EUROPE, DORDRECHT/NL	VALVOLINE HEAVY DUTY ATF PRO LD (*)	ZF001872
VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US	SYN GARD™ ATF ES	ZF003710
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR	LUBRAX ATF HD	ZF002120
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF LIFEGUARDFLUID 5	ZF001363

Lubricant class 14C**Manufacturer (14C)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ALLEGHENY PETROLEUM, WILMERDING, PA/US
 AOCUSA, PICO RIVERA/US
 BASF SE, LUDWIGSHAFEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BP PLC., LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 EXOL LUBRICANTS LTD, WEDNESBURY/GB
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GULF WESTERN OIL (AUST) PTY LTD, ST MARYS/AU
 H. BANTLEON GMBH / GESELLS. D. AVIA, ULM/DE
 HI-TEC OILS, SMITHFIELD/AU
 JOHN DEERE, MOLINE, ILLINOIS/US
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTUL SA, AUBERVILLIERS/FR
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 PETROLUBE OILS COMPANY, JEDDAH/SA
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 S.I.R.A.L., NOLA NAPOLI/IT
 SASOL ENERGY, JOHANNESBURG/ZA
 SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 TEDEX S.A., WARSZAWA/PL
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 VALVOLINE AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Trade name (14C)

ADDINOL ATF XN HD
 ALTRA SHL EXTENDED DRAIN ZF 20C
 MV TYPE 20C ATF
 EMGARD 2805
 BELGIN LUBEX MITRAS ATF SYN ULTRA
 BP AUTRAN SYN 295
 CASTROL TRANSYND
 CASTROL TRANSMAX ATF Z
 TES-295 SYN TRANSMISSION FLUID
 CEPSA ATF 4000 S
 CHAMPION OEM SPECIFIC MULTI VEHICLE ATF HD-LD
 AUTOTRANS ELC
 MOBIL DELVAC 1 ATF
 TRANSWAY ATF ULTRA
 FUCHS TITAN ATF 5500
 SYN-TS® ZFV
 AVILUB FLUID ATZ 295
 MULTITRANS PLUS ATF
 HD SYNTHETIC TRANSMISSION FLUID
 LUKOIL ATF SYNTH MN Z3
 YORK 886
 MOTOREX_YORK ATF VZ
 MOTUL ATF HD
 OTOKAR SPECTRA ATF Z
 TEBOIL FLUID ES-MAX
 ATF XT III FLUID PLUS
 DURADRIVE HD LONG DRAIN ATF
 GALP TRANSMATIC Z
 PETROMIN ATF Z20 LD
 TUTELA ATF 900 HD
 REPSOL MATIC SINTETICO
 REPSOL AUTOMATOR ATF 14C
 SIROIL ATF MAXIMUM
 SYN TRANSMISSION OIL VI
 DURASHIFT ATF HDLD
 SINOPEC GREATWALL FULLY SYNTHETIC ATF HD S
 SINOPEC GREATWALL SYNTHETIC ATF HD
 TEDEX ATF SYNTHETIC (S)
 LINGXIAN 10+ AUTOMATIC TRANSMISSION FLUID
 HEAVY DUTY ATF PRO ECO PLUS
 WOLF OFFICIALTECH MULTI VEHICLE ATF HD-LD

ZF approval number

ZF004913
 ZF001756
 ZF002208
 ZF003370
 ZF008386
 ZF000197
 ZF000226
 ZF002158
 ZF002298
 ZF006058
 ZF007147
 ZF001685
 ZF001827
 ZF001330
 ZF001797
 ZF004900
 ZF002288
 ZF001669
 ZF004851
 ZF009451
 ZF004907
 ZF006107
 ZF003587
 ZF004737
 ZF001726
 ZF001748
 ZF004791
 ZF001893
 ZF002003
 ZF005936
 ZF003586
 ZF008282
 ZF003709
 ZF001091
 ZF004870
 ZF003345
 ZF003347
 ZF002213
 ZF003378
 ZF003488
 ZF006128

Lubricant class 14E

Manufacturer (14E)

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

Trade name (14E)

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

ZF approval number

ZF000053
ZF006080
ZF001671