



Industrial Technology

Powershift transmissions, type EcoLife Offroad 1, EcoLife Offroad 2 and PowerLine Offroad as well as DynamicPerform wet starting clutch for special vehicles and stationary applications

List of lubricants TE-ML 25

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1. Approved lubricant classes for EcoLife Offroad 1, EcoLife Offroad 2 and PowerLine Offroad transmissions and DynamicPerform wet starting clutch for special vehicles and stationary applications

Product groups	Lubricant classes for service fill ⁽¹⁾
EcoLife Offroad 1, EcoLife Offroad 2 for special vehicles and stationary applications All EcoLife Offroad variants with the final letters E, EK, EP, EKP, S, SP, SK or SKP	25A / 25B / 25C / 25F / 25G
PowerLine Offroad for special vehicles	25A / 25G
DynamicPerform for special vehicles	25G

The list of lubricants TE-ML 25, **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

2. Oil and filter change intervals for powershift transmissions, type EcoLife Offroad 1 and EcoLife Offroad 2, for special vehicles ⁽²⁾

Lubricant class ⁽¹⁾	Oil and filter change interval [km/ year] ^{(3), (5)}
25A (Nato code O-1178) ⁽⁵⁾	10,000 km 1 x year
25B	20,000 km 1 x year
25C ⁽⁴⁾	30,000 km 1 x every 2 years
25F / 25G	60,000 km 1 x every 3 years

3. Oil and filter change intervals for powershift transmissions, type PowerLine Offroad, for special vehicles

Lubricant class ⁽¹⁾	Oil and filter change interval [km/ year] ^{(3), (5)}
25A (Nato code O-1178) ⁽⁵⁾	10,000 km 1 x year
25G	60,000 km 1 x every 3 years

4. Oil and filter change intervals for powershift transmissions, type EcoLife Offroad 1, EcoLife Offroad 2, for stationary applications ⁽²⁾

Lubricant class ⁽¹⁾	Oil and filter change interval [operating hours/year] ⁽⁶⁾
25B / 25C	1,000 h 1 x year
25F / 25G	1,500 h 1 x year

5. Oil and filter change intervals for DynamicPerform wet starting clutch

Lubricant class ⁽¹⁾	Oil and filter change interval [operating hours/year] ⁽⁷⁾
25G	10,000 h 50,000 km 1 x every 3 years

6. Explanation of footnotes and comments

- (1) Refer to the following pages for approved commercial products and oil change intervals.
- (2) For information on oil and filter change intervals for trucks used in long-haul and delivery traffic (EcoLife variants with the final letters T, TK, TP, TKP), please refer to the List of Lubricants TE-ML 20.
- (3) Oil and filter change required, depending on what occurs first. Use only ZF original filter elements. In the case that the initial reoiling from an ATF [automatic transmission fluid] of the lubricant class 25B to an ATF with extended oil change intervals is planned, then an interim oil change after <20,000 km / <1,000 h / one year at the most is required.
- (4) The lubricant class 25C also contains several NATO code H-548 synthetic ATFs (automatic transmission fluids). NATO code H-548 oils that are not listed in this lubricant class are not permissible.
- (5) When reoiling from a lubricant class 25A oil to a lubricant class 25B, 25C, 25F or 25G ATF [automatic transmission fluid], a one-time interim oil change is required after < 10,000 km / one year at the most.
- (6) Oil and filter change required, depending on what occurs first. Use only ZF original filter elements. In the case that the initial reoiling from an ATF [automatic transmission fluid] of the lubricant class 25B or 25C to an ATF with extended oil change intervals is planned, then an interim oil change after <1,000 h / one year at the most is required.
- (7) Oil and filter change required, depending on what occurs first. Use only ZF original filter elements.

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.

7. Lubricant classes and approved trade products

Lubricant class 25A

NATO code O-1178 oils

Lubricant class 25B**Manufacturer (25B)**

ADDINOL LUBE OIL GMBH, LEUNA/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
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CITGO PETROLEUM CORPORATION, HOUSTON/US
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 ENOC MARKETING LLC, DUBAI/AE
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 INA MAZIVA LTD., ZAGREB/HR
 MABANOL GMBH & CO. KG, HAMBURG/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 OEL-BRACK AG, HUNZENSCHWIL/CH
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETROLUBE OILS COMPANY, 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
 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
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNITED OIL COMPANY PTE LTD, SINGAPORE/SG
 VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR

Trade name (25B)

ADDINOL ATF XN 5
 LUBEX ATF-III KYS
 LUBEX ATF-III KYS
 BELGIN LUBEX MITRAS ATF III PLUS
 CEPESA ATF 3000 S
 DELO SYN ATF HD
 CITGO QUATRASYN SYNTHETIC TRANSMISSION FLUID
 ATF ALLPOWER MULTIVEHICULOS
 ENI ROTRA ATF II E
 ENI ROTRA ATF MULTI
 ENOC ACTIVE SYN VVM
 RTO STARMATIC S3
 INA ATF DX IIIH
 MABANOL RADON GEAR ATF III MV
 MOL ATF SYNT 3H
 MIDLAND OMNIMATIC
 HIPOL ATF II E
 AUXON II E
 ATF XT III FLUID
 PETROMIN ATF Z20 ECO
 PETRONAS TUTELA ATF 700 HD
 ATF D3 GOLD
 TRANSFLUID SYNTHETIC M-5
 RAVENOL DEXRON III H
 REPSOL MATIC III
 REPSOL AUTOMATOR ATF III
 ROWE HIGHTEC ATF 9000
 SINOPEC GREATWALL ATF HD S
 SINOPEC GREATWALL ATF HD
 SRS WIOLIN ATF III MV
 LINGXIAN 6+ AUTOMATIC TRANSMISSION FLUID
 FLUIDMATIC XLD FE
 UNITED MV 99
 SYN GARD™ ATF ES
 LUBRAX ATF HD

ZF approval number

ZF004911
 ZF002255
 ZF002293
 ZF008301
 ZF000386
 ZF001664
 ZF003690
 ZF000385
 ZF000951
 ZF003452
 ZF005942
 ZF008343
 ZF002314
 ZF004879
 ZF001895
 ZF003682
 ZF003623
 ZF000048
 ZF001177
 ZF001974
 ZF003627
 ZF003507
 ZF001025
 ZF001609
 ZF000318
 ZF008281
 ZF001937
 ZF003346
 ZF003348
 ZF002061
 ZF003377
 ZF008244
 ZF003562
 ZF003710
 ZF002120

Lubricant class 25C**Manufacturer (25C)**

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
 BELLINI S.P.A., ZANICA/IT
 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
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MOL-LUB KFT, ALMASFUZITO/HU
 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
 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
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Trade name (25C)

ADDINOL ATF XN HD
 ALTRA SHL EXTENDED DRAIN ZF 20C
 MV TYPE 20C ATF
 EMGARD 2805
 BELGIN LUBEX MITRAS ATF SYN ULTRA
 ATF OIL PAO PREMIUM EXTRA SAE 75W
 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
 Q8 AUTO 15 S
 LIQUI MOLY TOP TEC ATF 1700
 LUKOIL ATF SYNTH MN Z3
 MOL ATF 295
 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
 TAMOIL ATF LONG LIFE 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
 ZF010429
 ZF000197
 ZF000226
 ZF002158
 ZF002298
 ZF006058
 ZF007147
 ZF001685
 ZF001827
 ZF001330
 ZF001797
 ZF004900
 ZF002288
 ZF001669
 ZF004851
 ZF001635
 ZF006000
 ZF009451
 ZF003361
 ZF004907
 ZF006107
 ZF003587
 ZF004737
 ZF001726
 ZF001748
 ZF004791
 ZF001893
 ZF002003
 ZF005936
 ZF003586
 ZF008282
 ZF003709
 ZF001091
 ZF004870
 ZF003345
 ZF003347
 ZF001672
 ZF002213
 ZF003378
 ZF003488
 ZF006128

Lubricant class 25F

Manufacturer (25F)

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

Trade name (25F)

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

ZF approval number

ZF000053
ZF006080
ZF001671

Lubricant class 25G

Manufacturer (25G)

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (25G)

ZF ECOFLUID LIFE PLUS

ZF approval number

ZF001719