



**Powershift transmissions, type EcoLife Offroad, for special vehicles and stationary applications**

**List of lubricants TE-ML 25**

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**1. Approved lubricant classes for EcoLife Offroad transmissions for special vehicles and stationary applications**

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

(1) Refer to the following pages for approved commercial products and oil change intervals.

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.

The list of lubricants TE-ML 25, <b>edition 01.10.2018</b> replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under <a href="http://www.zf.com/lubricants">www.zf.com/lubricants</a> .	<b>ZF Friedrichshafen AG</b> D-88038 Friedrichshafen <a href="http://www.zf.com/contact">www.zf.com/contact</a>
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## 2. Oil and filter change intervals for powershift transmissions, type EcoLife Offroad, for special vehicles <sup>(2)</sup>

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

## 3. Oil and filter change intervals for powershift transmissions, type EcoLife Offroad, for stationary applications <sup>(2)</sup>

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

- (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, ZF order no. 4181 298 002. 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 ATF's (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, ZF order no. 4181 298 002. 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.

#### **4. Lubricant classes and approved trade products**

##### **Lubricant class 25A**

NATO code O-1178 oils

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

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

**Trade name (25B)**

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

**ZF approval number**

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

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

ALLEGHENY PETROLEUM, WILMERDING, PA/US  
 AMSOIL, INC., SUPERIOR, WI/US  
 ARAL AG, BOCHUM/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 EXOL LUBRICANTS LTD, WEDNESBURY/GB  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 H. BANTLEON GMBH / GESELLS. D. AVIA, ULM/DE  
 HI-TEC OILS, SMITHFIELD/AU  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LUBRICATING SPECIALTIES COMPANY, PICO RIVERA/US  
 MOL-LUB KFT, ALMASFUZITO/HU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OY TEBOIL AB, HELSINKI/FI  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PETROGAL S.A., LISBOA/PT  
 PETROMIN CORPORATION, JEDDAH/SA  
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 SASOL OIL, RANDBURG/ZA  
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN  
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN  
 TAMOIL ITALIA SPA, MILANO/IT  
 TEDEX S.A., WARSZAWA/PL  
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN  
 VALVOLINE AUSTRALIA PTY LTD, WETHERILL PARK, NSW/AU  
 VALVOLINE EUROPE, DORDRECHT/NL

**Trade name (25C)**

ALTRA SHL EXTENDED DRAIN ZF 20C  
 TORQUE-DRIVE SYNTHETIC ATF  
 ARAL GETRIEBEÖL ATF LD  
 EMGARD 2805  
 BP AUTRAN LTF  
 BP AUTRAN SYN 295  
 ATF VZ  
 CASTROL TRANSMAX Z  
 CASTROL TRANSYND  
 CASTROL TRANSMAX ATF Z  
 TES-295 SYN TRANSMISSION FLUID  
 AUTOTRANS ELC  
 MOBIL DELVAC SYNTHETIC ATF  
 MOBIL DELVAC 1 ATF  
 TRANSWAY ATF ULTRA  
 FUCHS TITAN ATF 5500  
 AVILUB FLUID ATZ 295  
 MULTITRANS PLUS ATF  
 Q8 AUTO 15 S  
 MV TYPE 20C ATF  
 MOL ATF 295  
 LUKOIL ATF SYNTH MN Z3  
 TEBOIL FLUID ES-MAX  
 AUXON III PLUS  
 ATF XT III FLUID PLUS  
 GALP TRANSMATIC Z  
 PETROMIN ATF Z20 LD  
 PETRONAS TUTELA ATF 900 HD  
 REPSOL MATIC SINTETICO  
 SYN TRANSMISSION OIL VI  
 SINOPEC GREATWALL FULLY SYNTHETIC ATF HD S  
 SINOPEC GREATWALL SYNTHETIC ATF HD  
 TAMOIL ATF LONG LIFE HD  
 TEDEX ATF SYNTHETIC (S)  
 LINGXIAN 10+ AUTOMATIC TRANSMISSION FLUID  
 HEAVY DUTY ATF PRO ECO PLUS  
 VALVOLINE HEAVY DUTY ATF PRO ECO

**ZF approval number**

ZF001756  
 ZF001841  
 ZF000144  
 ZF003370  
 ZF000195  
 ZF000197  
 ZF003369  
 ZF000221  
 ZF000226  
 ZF002158  
 ZF002298  
 ZF001685  
 ZF001234  
 ZF001827  
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 ZF001797  
 ZF002288  
 ZF001669  
 ZF001635  
 ZF002208  
 ZF003361  
 ZF001302  
 ZF001726  
 ZF001466  
 ZF001748  
 ZF001893  
 ZF002003  
 ZF003567  
 ZF003586  
 ZF001091  
 ZF003345  
 ZF003347  
 ZF001672  
 ZF002213  
 ZF003378  
 ZF003488  
 ZF001871

**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  
ZF001483  
ZF001671

**Lubricant class 25G**

**Manufacturer (25G)**

ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (25G)**

ZF-ECOFLUID LIFE PLUS

**ZF approval number**

ZF001719