



**Manual and automated ZF transmissions
for trucks, buses, light commercial vehicles and special
vehicles with "TE-ML 02" label on the type plate**

List of lubricants TE-ML 02

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1. Approved lubricant classes

1.1 Trucks and special applications

Product groups trucks Note: Instead of the "0" as the last figure, there may also be a: 2;3;4;5. (Example: 12AS1935, 16S2223)	Lubricant classes	
	First fill ⁽⁵⁾	Service fill ⁽⁶⁾
Ecolite S5-42, S6-36, S6-36/2, S5-420	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
5S580	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
6S500 ⁽²⁾	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E
Ecolite / AS Tronic lite 6S850, 6AS850	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
Ecolite 6S1200	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
Ecolite / Eco Tronic lite / AS Tronic lite 6S700, 6AS700, 6S800, 6AS800, 6S1000, 6AS1000, 6S1100, 6AS1110	ZF EcoFluid M 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
AS Tronic lite Hydraulic actuators	02K	02K

The list of lubricants TE-ML 02, **edition 01.04.2026** 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

Product groups trucks (continuation) Note: Instead of the "0" as the last figure, there may also be a: 2;3;4;5. (Example: 12AS1935, 16S2223)	Lubricant classes	
	First fill ⁽⁵⁾	Service fill ⁽⁶⁾
Ecomid without Intarder 9S75, 8S109, 9S109, 16S109	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
Ecomid with Intarder 8S109IT, 9S109IT, 16S109IT	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Ecomid without Intarder 8S1110, 9S910, 9S1110, 9S1310, 9S1510	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
Ecotronic mid 9AS910, 9AS1110, 9AS1310, 9AS1510	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
Ecomid with Intarder 8S1111, 9S1111, 9S1311	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
AS Tronic mid 12AS1010, 12AS1210, 12AS1220, 12AS1420, 12AS1620	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
Ecosplit without Intarder 8S151, 16S151, 8S181, 16S181, 16S221, 16S251 8S1620, 16S1620, 8S1820, 16S1820, 8S1920, 16S1920, 16S2020, 8S2220, 16S2220, 16S2520, 16S2720 16S1580, 16S1680, 16S2180, 16S2280	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
Ecosplit with Intarder 8S151IT, 16S151IT, 8S181IT, 16S181IT, 16S221IT, 16S251IT 8S1621, 16S1621, 8S1821, 16S1821, 8S1921, 16S1921, 16S2021, 8S2221, 16S2221, 16S2521, 16S2721 16S1581, 16S1681, 16S2181, 16S2281	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Ecosplit without Intarder 16S2320, 16S2330	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
12S2130, 12S2330, 12S2830	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
8S1630, 16S1630, 8S1830, 16S1830, 8S1930, 16S1930, 16S2030, 8S2230, 16S2230, 16S2530, 16S2733	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
Ecosplit with Intarder 16S2321, 16S2331	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
12S2131, 12S2331, 12S2831	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
16S1631, 8S1831, 16S1831, 8S1931, 16S1931, 16S2031, 8S2231, 16S2231, 16S2531, 16S2731	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Classic Line 8S1350, 16S1455TD, 16S1650, 16S1670, 16S1850, 16S1950, 9S1820, 16S1650HD S6-1550, S6-820, S5-680, S6-680, S5-820	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
AS Tronic without Intarder 12AS1630, 12AS1930, 12AS2130, 12AS2140, 12AS2300, 12AS2301, 12AS2330, 12AS2340, 12AS2501, 12AS2530, 12AS2540, 12AS2740, 12AS2940, 12AS3001, 12AS3002, 12AS3140, 16AS2230, 16AS2600, 16AS2601, 16AS2630	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
AS Tronic with Intarder 12AS1631, 12AS1931, 12AS2131, 12AS2141, 12AS2300IT, 12AS2301IT, 12AS2331, 12AS2341, 12AS2501IT, 12AS2531, 12AS2541, 12AS2741, 12AS2941, 12AS3001IT, 12AS3002IT, 12AS3141, 16AS2231, 16AS2600IT, 16AS2601IT, 16AS2631	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L

Product groups trucks (continuation) Note: Instead of the "0" as the last figure, there may also be a: 2;3;4;5. (Example: 12AS1935, 16S2223)	Lubricant classes	
	First fill ⁽⁵⁾	Service fill ⁽⁶⁾
TraXon without Intarder 12TX1410, 12TX1610, 12TX1810, 12TX2010, 12TX2210, 12TX2410, 12TX 2610, 12TX2420, 12TX2620, 12TX2820, 12TX3020, 12TX3220, 12TX3420 16TX1640, 16TX1840, 16TX2040, 16TX2240, 16TX2440, 16TX2640, 16TX2840, 16TX3040, 16TX3240, 16TX3440	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon with Intarder 12TX1411, 12TX1611, 12TX1811, 12TX2011, 12TX2211, 12TX2411, 12TX 2611, 12TX2421, 12TX2621, 12TX2821, 12TX3021, 12TX3221, 12TX3421 16TX1641, 16TX1841, 16TX2041, 16TX2241, 16TX2441, 16TX2641, 16TX2841, 16TX3041, 16TX3241, 16TX3441	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon 2 without Intarder 12TX1450, 12TX1650, 12TX1850, 12TX2050, 12TX2250, 12TX2450, 12TX2650, 12TX2460, 12TX2660, 12TX2860, 12TX3060, 12TX3260, 12TX3460	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon 2 with Intarder 12TX1451, 12TX1651, 12TX1851, 12TX2051, 12TX2251, 12TX2451, 12TX2651, 12TX2461, 12TX2661, 12TX2861, 12TX3061, 12TX3261, 12TX3461	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Transmatic (Joint oil circuit of basic transmission and converter lock-up clutches) 16S151WSK, 16S221WSK, 16S251WSK	02H	02H
TC Tronic (Separate oil circuit of basic transmission and converter lock-up clutches) Basic transmission: 12AS2540, 12AS2740	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
Torque converter lock-up clutches: TC 2	02H / ATF in accordance with TE-ML 14 ⁽⁷⁾	02H / ATF in accordance with TE-ML 14 ⁽⁷⁾
TC Tronic HD (Heavy Duty) (Separate oil circuit of basic transmission and converter lock-up clutches) Basic transmission: 12AS3041	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon Torque (Separate oil circuit of basic transmission and converter lock-up clutches) Basic transmission: 12TX3421	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Torque converter lock-up clutches: TCHD, TCHD TT	ZF EcoFluid M 02E	ZF EcoFluid M 02E
NMV 1600L1, 2000L1, 2003L1, 1075K1 (engine-dependent PTO" with independent oil circuit)	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L

1.2 Buses

Product groups buses	Lubricant classes	
	First fill ⁽⁵⁾	Service fill ⁽⁶⁾
Ecolite S5-42, S6-36, S6-36/2, 5S580BO, 5S600BO	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
Ecolite 6S890, 6S700BO	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
Ecolite without Intarder S6-85, 6S1000BO, 6S1000BD, 6S1200BO, 6S1200BD, 6S1350BO, 6S1600BD, 6S1650BO, 6S1700BO, 6S1900BO	ZF EcoFluid M 02B ⁽¹⁾ / 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
Ecolite with Intarder 6S1351BO, 6S1601BD, 6S1651BO, 6S1901BO, 6S1701BO	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Ecolite / AS Tronic lite 6S710BO, 6AS710BO, 6S1010BO, 6AS1010BO, 6S1110BO, 6AS1110BO	ZF EcoFluid M 02E	ZF EcoFluid M 02B ⁽¹⁾ / 02E / 02L
AS Tronic lite Hydraulic actuators	02K	02K
Ecomid without Intarder 8S180, 8S2100BO, 8S2100BD	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
Ecomid with Intarder 8S180IT, 8S2101BO, 8S2101BD	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Classic Line S6-1550, S6-820, S5-680, S6-680, S5-820, 6S1380BD	ZF EcoFluid M 02B / 02E	ZF EcoFluid M 02B / 02E / 02L
AS Tronic without Intarder 10AS2300BO, 10AS2310B, 10AS2700BO, 12AS2000BO, 12AS2300BO, 12AS2301, 12AS2700BO	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
AS Tronic with Intarder 10AS2010BIT, 10AS2301IT, 10AS2310BIT, 12AS1601BO, 12AS2000BIT, 12AS2001BO, 12AS2300BIT, 12AS2301IT, 12AS2301BO, 12AS2701BO	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon without Intarder 12TX2420BD	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon with Intarder 12TX1611BO, 12TX2011BO, 12TX2411BO, 12TX2811BO, 12TX2421BO, 12TX2821BO, 12TX2421BD, 12TX2621BD	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
TraXon 2 with Intarder 12TX1651BO, 12TX2051BO, 12TX2451BO, 12TX2851BO, 12TX1661BO, 12TX2061BO, 12TX2461BO, 12TX2661BO 12TX1451BD, 12TX1851BD, 12TX2251BD, 12TX2651BD, 12TX1461BD, 12TX1861BD, 12TX2261BD, 12TX2661BD, 12TX3061BD	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Ecoshift without Intarder 6S1310BD, 6S1310BO, 6S1610BD, 6S1610BO, 6S1910BO	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L
Ecoshift with Intarder 6S1311BD, 6S1311BO, 6S1611BD, 6S1611BO, 6S1911BO, 6S2111BO	ZF EcoFluid M 02E	ZF EcoFluid M 02E / 02L

1.3 Light commercial vehicles

Product groups Light commercial vehicles	Lubricants / Lubricant classes	
	First fill ⁽⁵⁾	Service fill ⁽⁶⁾
5S200VO, 5S270VO, 6S300VD, 6S320VD, 6S350VD, 6S380VO, 6S420VO	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
eTronic 6AS300VD, 6AS320VD, 6AS380VO, 6AS400VO, 6AS420VO	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
6S650, 6S720, 6S750	ZF EcoFluid M 02E	ZF EcoFluid M 02B / 02E / 02L
6S450, 6S480 VW Amarok, VW Crafter, MAN TGE	ZF EcoFluid M ⁽⁹⁾ VW spare part no. G 055 538 A2	ZF EcoFluid M VW spare part no. G 055 538 A2
6S480 IVECO Daily	ZF EcoFluid M ⁽⁹⁾ 02E	ZF EcoFluid M 02E
6S450, 6S480 Mercedes-Benz Sprinter	ZF EcoFluid M 02E	ZF EcoFluid M 02E Exxon Mobil Gear Oil MB 317 Mercedes-Benz MB 235.10 -- Manual Transmission Oil A 001 989 26 03
5S400 ⁽²⁾	Fuchs Titan EG MP 80 Petronas TUTELA OTZ (80W-90)	ZF EcoFluid M 02B / 02E

1.4 Product groups/Models/Versions from the past, not individually listed

Product groups/Models/Versions	Lubricant classes
Torque converter lock-up clutches (WSK) with separate oil circuit	02H / ATF in accordance with TE-ML 14 ⁽⁷⁾
Transmissions without ZF-Intarder AS Tronic 1 (12AS1800, 16AS2200) Constant-mesh and synchronised transmissions for commercial vehicles	ZF EcoFluid M 02B / 02E / 02L
Transmissions with ZF-Intarder AS Tronic 1 (12AS1800IT, 16AS2200IT) Constant-mesh and synchronised transmissions for commercial vehicles	ZF EcoFluid M 02E / 02L
Transfer case with type plate entry TE-ML 02	Shell Spirax MA 80 W

2. Oil and filter change intervals (filter replacement affects only transmission with Intarder or WSK [torque converter clutch])

Caution: Please refer to the previous pages, Section 1, tables, for information on the lubricant classes released for the individual product groups.

ZF EcoFluid M was specially designed for applications with manual transmissions and automatic transmissions in commercial vehicles. The combination of a hydrocrack base oil with a specially balanced additive package ensures excellent oxidation stability and is thus excellently suited for very long oil change intervals. It warrants high-quality transmission component protection, in particular of the synchronizers and the gearings. 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. Moreover, in comparison with mineral transmission fluids, ZF EcoFluid M helps to reduce fuel consumption by 0.5 up to 1.0%.






Truck, bus and special applications according to sections 1.1, 1.2 and 1.4

Lubricant class	02B, 02H, ATF	02L	ZF EcoFluid M 02E	02K
Application	Oil and filter change intervals ⁽³⁾			
- Off-road operation e.g. mining application - Average speed up to 20 km/h - Stationary drives - NMV	1.000 h 20.000 km 1 year	5.000 h 100.000 km 1 year	10.000 h 200.000 km 2 years ⁽⁴⁾	---
- Hot country use ⁽⁸⁾ - Long-distance transport > 50 t - Short-distance transport - Tough operating conditions - Scheduled routes (buses) - Average speed from 20 to 60 km/h	120.000 km 1 year	240.000 km 2 years	360.000 km 3 years ⁽⁴⁾	---
- Long-distance transport (trucks) - Long-distance coach journeys (buses) - Average speed as of 60 km/h	180.000 km 1 year	360.000 km 2 years	600.000 km 3 years ⁽⁴⁾	---
- Hydraulic actuators	---	---	---	no oil change needed

Light commercial vehicles according to section 1.3

Lubricants / Lubricant classes	Oil change intervals
02B Fuchs Titan EG MP 80 Petronas TUTELA OTZ (80W-90)	60.000 km
02L Total Tranself LD 75W-80 Petronas Gear Oil T.E. LD SAE 75W-80	240.000 km
ZF EcoFluid M / 02E Exxon Mobil Gear Oil MB 317 Mercedes-Benz MB 235.10 -- Manual Transmission Oil A 001 989 26 03	no oil change needed

3. Low temperatures limits

Lubricant classes	Oil type / SAE viscosity grade	Initial vehicle start-up at oil sump temperatures
ZF EcoFluid M 02B / 02E / 02K / 02L / ATF	75W / 75W-80 / 75W-85 / 75W-90 / ATF	- 40°C 
02B / 02H	80W / 80W-85 / 80W-90	- 20°C 
02B / 02H	85W-90, 90	0°C 
	30	- 5°C 
	20W (Transmatic / Torque converter lock-up clutches TC 2 only)	- 40°C  - 5°C

4. Explanation of footnotes and comments

Footnotes

- (1) In moderate climate zones, shift quality of non-automated transmissions is impaired when using the lubrication classes 02B / 02H.
- (2) If the type plate also refers to "Foton ZF LCV Automated Transmission (Jiaxing) Co., Ltd" as the manufacturer in addition to ZF, the TE-ML 02 is not valid. In this case, please contact Foton ZF LCV Automated Transmission (Jiaxing) Co., Ltd.
- (3) Oil and filter change required, depending on what occurs first. Only use genuine ZF filter inserts:
 - Intarder 2: 6085 298 026
 - Intarder 3: 0501 215 163
 - WSK: 0501 202 378
- (4) These intervals only apply to a hose breather in a dry area. If there is no hose breather in the dry area, the oil change intervals specified for lubricant class 02L apply. This restriction does not apply to TraXon and bus applications.
- (5) First filling: Only the lubricant classes listed are permitted for initial fillings of transmissions. ZF recommends the oil grades listed in Tables 1.1 -1.4.
- (6) Service filling: The lubricant classes listed are compulsory for service oil changes according to the oil-change intervals mentioned under Section 2. In case of oil changes at transmission mileage of up to 7500 km, only oils for initial fillings must be used.
- (7) All lubricants of TE-ML 14 may be used. Oil change intervals and temperature limits of TE-ML 02 do apply.
- (8) The denomination „hot country use“ is derived from the area where the vehicle is used, rather than from a country in the sense of a state.
Regarding ZF units, we say "Hot country use" when:
 1. the monthly average temperature exceeds 25°C in more than 2 months within a year
 2. or if temperatures rise above 40°C on more than 7 days in a year.
- (9) No oil changes are required during transmission operation.

Comments

1. Instructions for transmission ventilation in accordance with Installation Guidelines 1203 765 110 and 1328 765 101 must be followed.
2. A lithium saponified multipurpose grease of NLGI class 2 which is mixable with mineral oil is to be used at greasing points (grease code KP2K-30 in acc. with DIN 51825 or ISO-L-XCCHB2 in accordance with ISO 6743-9).
3. 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.
4. ZF will not assume liability for damage caused by non-observance of our maintenance instructions.

5. Lubricant classes and approved trade products

Lubricant class 02A

Note:

Oils formerly approved according to lubricant class 02A are now found in lubricant class 02B.

Lubricant class 02B**Note:**

In moderate climate zones, shift quality is impaired if viscosity grades higher than SAE 80W are used.

Manufacturer (02B)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVIA AG, MÜNCHEN/DE
 AVIA AG, MÜNCHEN/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ENILIVE S.P.A., ROME/IT
 ENILIVE 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
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/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
 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
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTUL SA, AUBERVILLIERS/FR
 OEL-BRACK AG, HUNZENSCHWIL/CH
 OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
 OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN S.A., GDANSK/PL
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETROCHINA LUBRICANT COMPANY, BEIJING/CN
 PETROCHINA LUBRICANT COMPANY, BEIJING/CN
 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
 PHI OIL GMBH, ST. GEORGEN/AT
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB

Trade name (02B)

ADDINOL GETRIEBEÖL GX 80W-90 ML
 ADDINOL GETRIEBEÖL GH 75 W 90 SL
 AVIA POWERTRAIN GAX 80W-90
 AVIA POWERTRAIN SUPREME GAX 75W-90
 AVISTA PEER EVO GL4/GL5 SAE 80W-90
 AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90
 TECTROL MULTIGEAR PLUS 8090
 BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90
 EVOLCA SGP 75W90
 EVOLCA BGP 80W90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CASTROL TRANSMAX MANUAL EP 80W-90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 CASTROL TRANSMAX UNIVERSAL LL 75W-90
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO GEAR TDL 80W-90
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 AVENO TDL ULTIMATE 75W-90
 MULTIHIPO 75W-90 SINT
 MULTIHIPO 80W-90 F PLUS
 ENI ROTRA LSX 75W-90
 ENI ROTRA MP 75W-90
 MOBILUBE 1 SHC 75W-90
 MOBILUBE S 80W-90
 MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
 MOBILUBE S 80W-90
 AVIATICON FINKOGEAR PREMIUM 75W-90
 AVIATICON FINKOGEAR SUPER 80W-90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 GEARWAY S5 75W-90
 FUCHS TITAN GEAR ZF SAE 80
 FUCHS TITAN CYTRAC TD SAE 75W-90
 PENTOSIN GEAR ULTRA SAE 75W-90
 GULF GEAR TDL 80W-90
 GULF SYNGEAR 75W-90
 GULF GEAR ZX 80W
 FASTROL MTF4 80W-90
 LONGEVIA TCX ECO 75W-90
 SYNTHEGEAR 75W-90
 INA HIPENOL TDL 80W-90
 INA HIPENOL SHD 75W-90
 Q8 TRANS XGS 75W-90
 Q8 GEAR OIL XG SAE 80W-90
 ROXOR SUPER DUTY SYNTH 75W-90
 ROXOR TOPGEAR 80W-90
 LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 LUKOIL TRANSMISSION MN 75W-90
 LUKOIL TRANSMISSION UNI 80W-90
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
 CEPESA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 MOL HYKOMOL TDL 75W90
 MOTOREX YORK GEAR ZX TP SAE 80W/90
 YORK 896 75W90
 MOTOREX YORK PENTA TL SAE 75W/90
 MOTOREX YORK UNISYNT ZX SAE 75W90
 MOTUL GEAR SYNTH TDL 75W-90
 MIDLAND SENSOGEAR 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 ORLEN OIL GEAR LL 80W-90
 TITANIS SUPER GL-5 80W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 KUNLUN ZFGO 02B 80W-90
 KUNLUN ZFGO 02B 85W-90
 GALP TRANSVEX TDL 75W90
 MAXIGEAR D 75W-90
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 PETRONAS TUTELA AXLE 700 EHD 75W-90
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90
 RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90
 REPSOL CARTAGO FE LD 75W90
 REPSOL NAVIGATOR FE LL 75W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 SHELL SPIRAX S3 AM 80W-90

ZF approval number

ZF000672
 ZF002260
 ZF012197
 ZF012039
 ZF004780
 ZF004797
 ZF012143
 ZF005978
 ZF004734
 ZF004735
 ZF002133
 ZF002135
 ZF002136
 ZF002143
 ZF002144
 ZF003554
 ZF002273
 ZF003353
 ZF000829
 ZF000964
 ZF010792
 ZF000653
 ZF001456
 ZF000860
 ZF003364
 ZF000041
 ZF000776
 ZF003699
 ZF012155
 ZF002249
 ZF002299
 ZF000722
 ZF001030
 ZF002313
 ZF003341
 ZF004931
 ZF000780
 ZF000863
 ZF001849
 ZF003436
 ZF008392
 ZF008361
 ZF000432
 ZF000977
 ZF000179
 ZF002103
 ZF009457
 ZF010966
 ZF001347
 ZF001323
 ZF010972
 ZF012099
 ZF012150
 ZF001183
 ZF001291
 ZF000086
 ZF000965
 ZF003365
 ZF006006
 ZF000550
 ZF006007
 ZF008207
 ZF000825
 ZF003680
 ZF000491
 ZF000565
 ZF011188
 ZF001098
 ZF001224
 ZF004902
 ZF004904
 ZF000980
 ZF001591
 ZF001738
 ZF003639
 ZF001203
 ZF003606
 ZF006037
 ZF006038
 ZF000451
 ZF008268
 ZF003626
 ZF001292

Manufacturer (02B)

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
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SK ENMOVE CO.,LTD., SEOUL/KR
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 WILHELM HOYER B.V. & CO. KG, VISSE LHÖVEDE/DE
 WILHELM HOYER B.V. & CO. KG, VISSE LHÖVEDE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (02B)

SHELL SPIRAX S6 ADME 75W- 90
 SHELL SPIRAX S3 G 80W
 SHELL SPIRAX S3 G 80W-90
 SINOPEC GREATWALL MTF C-I 80W
 SINOPEC GREATWALL MTF C-I 80W-90
 SINOPEC GREATWALL MTF C-I 85W-90
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
 TATADW G EP 80W-90
 SRS GETRIEBEFLUID SML 80W-90
 SRS GETRIEBEFLUID SXL 75W-90
 SRS WIOLIN ML 4 PLUS SAE 80W
 SRS WIOLIN ML 4 PLUS SAE 80W-90
 SRS WIOLIN ML 4 PLUS SAE 90
 TONGYI GEAR OIL MTF 80W
 TRAXIUM DUAL 9 FE 75W-90
 TRANSELF SYN FE 75W-90
 GEAR EP 80W-90
 HOYER GEAR F-FP 75W-90
 HOYER GEAR M-FS 80W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90
 ZF ECOFLUID X SAE 80W-90

ZF approval number

ZF003334
 ZF004866
 ZF004869
 ZF001727
 ZF001933
 ZF001936
 ZF003332
 ZF002132
 ZF000447
 ZF001655
 ZF001914
 ZF001915
 ZF001916
 ZF005991
 ZF006074
 ZF008393
 ZF007161
 ZF011993
 ZF011992
 ZF003525
 ZF009462
 ZF001266

Lubricant class 02E

We recommend that you use ZF EcoFluid M, a premium oil specially developed for ZF transmissions.

Manufacturer (02E)	Trade name (02E)	ZF approval number
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX MANUAL Z LONG LIFE 75W-80	ZF004761
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CYTRAC ULTRA SYNTH SAE 75W-80	ZF008388
HUILES BERLIET S.A., SAINT-PRIEST/FR	RTO LONGEVIA BZV ECO 75W-80	ZF008323
MAN TRUCK & BUS SE, MUNICH/DE	MAN GENUINE OIL MAN 341 Z5 75W-80	ZF012154
MOEVE COMMERCIAL S.A.U., MADRID/ES	CEPSA TRANSMISIONES Z5 FE+LD 75W80	ZF008339
OLIPES S.L., CAMPO REAL - MADRID/ES	MAXIGEAR TS 7400	ZF011974
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION XT-D 540 (SAE 75W-80)	ZF008385
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRAXIUM GEAR 9 FE 75W-80	ZF004874
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	ELF TRANSELF ZPV 75W-80	ZF012125
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF ECOFLUID M SAE 75W-80	ZF002155

Lubricant class 02H**Note:**

With oil sump temperatures below -5°C, engine oil of viscosity grade SAE 20W (API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/SF/SG/SH/SJ/SL specifications or ACEA categories A/B/E) must be used.

Manufacturer (02H)

ADDINOL LUBE OIL GMBH, LEUNA/DE
FUCHS PETROLUB SE, MANNHEIM/DE
GULF OIL INTERNATIONAL, MUMBAI/IN
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR

Trade name (02H)

ADDINOL TURBO DIESEL MD 305 SAE 30
FUCHS TITAN UNIVERSAL HD SAE 30 ZF
GULF SUPER DUTY LE 30
LUBRAX TRM 5 HD SAE 30

ZF approval number

ZF000624
ZF000719
ZF001147
ZF001174

Lubricant class 02K

Manufacturer (02K)	Trade name (02K)	ZF approval number
FUCHS PETROLUB SE, MANNHEIM/DE	PENTOSIN CHF 11S	ZF000832
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS TITAN CHF 11S	ZF004744

Lubricant class 02L**Manufacturer (02L)**

ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVIA AG, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 DE OLIEBRON BV, ZWIJNDRECHT/NL
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 DONGFENG COMMERCIAL VEHICLE CO. LTD, HUBEI/CN
 ENILIVE S.P.A., ROME/IT
 EUROL B.V., NJIVERDAL/NL
 EUROPART TRADING GMBH, HAGEN/DE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVE/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 WESTERN OIL (AUST) PTY LTD, ST MARYS/AU
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KROON-OIL B.V., ALMELO/NL
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOEVE COMMERCIAL S.A.U., MADRID/ES
 MOL-LUB KFT, ALMASFUZITO/HU
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 PAKEL MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROCHINA LUBRICANT COMPANY, BEIJING/CN
 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
 PHI OIL GMBH, ST. GEORGEN/AT
 RALOV LUBRICANTES, S.A. DE C.V., SANTIAGO TIANGUISTEN/MX
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SK ENMOVE CO.,LTD., SEOUL/KR
 SK ENMOVE CO.,LTD., SEOUL/KR
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 UNIL OPAL, SAUMUR/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR
 WILHELM HOYER B.V. & CO. KG, VISSSELHÖVE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (02L)

ADDINOL GETRIEBEÖL GS 75 W 80 SL
 AVIA POWERTRAIN PREMIUM GX-HD 75W-80
 TECTROL SYNTOGEAR MA 7580
 BELGIN LUBEX MITRAS MT EP SYN 75W-80
 TRANSMAX MANUAL Z 75W-80
 CASTROL GL-4 75W-80 300K
 CHAMPION OEM SPECIFIC 75W80 ZF
 DELO SYN-MTF XZ 75W-80
 DELO SYN-MTF XZ 75W-80
 TOR MT/LD GEAR OIL 75W80
 AVENO TRUCK GEAR LONGLIFE 75W-80
 DFCV-HDT 31
 ENI ROTRA MULTIGEAR 75W-80
 EUROL HPX ZM 75W-80 GL-4
 EUROPART SYNTHOGEAR INT. 75W80
 MOBIL DELVAC 1 TRANSMISSION FLUID 75W-80
 AVIATICON FINKOGEAR MTF 75W-80
 FUCHS TITAN CYTRAC MAN SYNTH SAE 75W-80
 FUCHS TITAN CYTRAC MAT SAE 75W-80
 FUCHS TITAN CYTRAC MAT SAE 75W-80
 FUCHS TITAN CYTRAC MAT SAE 75W-80
 GULF SYNGEAR FE 75W-80
 ULTRA SHIFT M SYNTHETIC MANUAL TRANSMISSION FLUID
 IGOL TRANSGEAR ZF PLUS 75W-80
 INA TRANSMOL HD SAE 75W-80
 SYNGEAR MT/LD 75W-80
 Q8 GEAR OIL V 75W-80
 Q8 T 60 NTECH 75W-80
 LIQUI MOLY TRUCK GETRIEBEÖL HC GL4 SAE 75W-80
 LUKOIL TRANSMISSION SYNTH MPV 75W-80
 LUKOIL TRANSMISSION LDI 75W-80
 MEGOL PREMIUM GETRIEBEOEL HC GL 4 75W80
 CEPESA TRANSMISIONES FE+LD 75W-80
 MOL HYKOMOL SYNTRANS 75W80
 YORK 994
 MOTOREX YORK PRISMA TF SAE 75W/80
 GOLDENGear LD PLUS SAE 75W-80
 TRAXON SYNTHETIC MTF 75W-80
 TRAXON SYNTHETIC MTF 75W-80
 KUNLUN ZFGO 02L
 GALP TRANSVEX TDL ULTRA 75W80
 MAXIGEAR S 75W-80
 PETRONAS TUTELA MTF 700 HD 75W-80
 PETRONAS TUTELA MTF 700 HD 75W-80
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)
 GEAR OIL MDV SILVER 75W80
 KRÖNEN TRANSMISSION SYNTHETIC OIL 341 SAE 75W-80
 RAVENOL SSG SPEC SYNT LKW GETRIEBEÖL 75W-80
 REPSOL NAVIGATOR FE LL 75W-80
 ROLF TRANSMISSION S7 GE 75W-80
 SHELL SPIRAX S6 GXME 75W- 80
 SINOPEC GREATWALL MTF 02L 75W-80
 SK GEAR EP 75W-80 ZF
 ZIC ZS G-EP HP 75W-80
 TONGYI GEAR OIL MTF 75W-80
 TRAXIUM GEAR 8 FE 75W-80
 TRANSELF LD 75W-80
 TRAXIUM GEAR 8 FE 75W-80
 TRANSELF LD 75W-80
 GERION LD 75W80
 VALVOLINE HEAVY DUTY GEAR OIL PRO 75W-80 LD
 LUBRAX GOLD XP SAE 75W-80
 HOYER GEAR F-TF 75W-80
 WOLF OFFICIALTECH 75W80 ZF
 BVX Z 1000 75W-80
 DIVINOL SYNTHOGEAR INT. 75W80
 ZF ECOFLUID M1

ZF approval number

ZF008318
 ZF012201
 ZF008378
 ZF006036
 ZF004760
 ZF012090
 ZF008313
 ZF003601
 ZF003600
 ZF003596
 ZF003546
 ZF003558
 ZF000861
 ZF012200
 ZF008330
 ZF004802
 ZF004856
 ZF001140
 ZF003373
 ZF003374
 ZF005980
 ZF003697
 ZF004901
 ZF004731
 ZF003344
 ZF012072
 ZF003669
 ZF003670
 ZF008329
 ZF010983
 ZF011997
 ZF008326
 ZF004812
 ZF008319
 ZF006062
 ZF006039
 ZF003619
 ZF002286
 ZF012111
 ZF004848
 ZF003595
 ZF009447
 ZF003684
 ZF004781
 ZF004782
 ZF004796
 ZF009446
 ZF010987
 ZF003704
 ZF008274
 ZF003676
 ZF003530
 ZF003393
 ZF000779
 ZF011928
 ZF005952
 ZF006075
 ZF008220
 ZF008236
 ZF008237
 ZF008404
 ZF004783
 ZF004854
 ZF012003
 ZF008307
 ZF001042
 ZF008324
 ZF011989

Lubricant class 02V**Note:**

Transmissions with label 02V on the type plate can be filled with ZF-EcoFluid M or, alternatively, with lubricant classes 02B, 02L and 02E.