



**Manual and automatic transmissions  
for trucks, buses and light commercial vehicles  
with "TE-ML 02" entry 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  <b>Note:</b> Instead of the "0" as the last figure, there may also be a: 2;3;4;5. (Example: 12AS1935, 16S2223)	Lubricant classes	
	First fill <sup>(5)</sup>	Service fill <sup>(6)</sup>
<b>Ecolite</b> S5-42, S6-36, S6-36/2, S5-420	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02L
S5-580	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02L
6S500	<a href="#">ZF-Ecofluid M</a> 02B / 02E	<a href="#">ZF-Ecofluid M</a> 02B / 02E
<b>Ecolite / AS Tronic lite</b> 6S850, 6AS850	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H <sup>(1)</sup> / 02L
<b>Ecolite</b> 6S1200TO, 6S1200TD	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H <sup>(1)</sup>	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H <sup>(1)</sup> / 02L
<b>Ecolite / AS Tronic lite</b> 6S700TO, 6AS700TO, 6S800TO, 6AS800TO, 6S1000TO, 6AS1000TO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02L
<b>AS Tronic lite</b> Hydraulic actuators	02K	02K

The list of lubricants TE-ML 02, **edition 01.07.2015** 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](http://www.zf.com/lubricants).

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

<b>Product groups trucks (continuation)</b> <b>Note:</b> Instead of the "0" as the last figure, there may also be a: 2;3;4;5. (Example: 12AS1935, 16S2223)	<b>Lubricant classes</b>	
	<b>First fill <sup>(5)</sup></b>	<b>Service fill <sup>(6)</sup></b>
<b>TraXon without Intarder</b> 12TX1410, 12TX1610, 12TX1810, 12TX2010, 12TX2210, 12TX2410, 12TX 2610, 12TX2420, 12TX2620, 12TX2820, 12TX3020, 12TX3220, 12TX3420 16TX1640, 16TX1840, 16TX2040, 16TX2240, 16TX2440, 16TX2640, 16XT2840, 16TX3040, 16TX3240, 16TX3440	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L
<b>TraXon with Intarder</b> 12TX1411, 12TX1611, 12TX1811, 12TX2011, 12TX2211, 12TX2411, 12TX 2611, 12TX2421, 12TX2621, 12TX2821, 12TX3021, 12TX3221, 12TX3421 16TX1641, 16TX1841, 16TX2041, 16TX2241, 16TX2441, 16TX2641, 16XT2841, 16TX3041, 16TX3241, 16TX3441	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L
<b>Transmatic</b> (Joint oil circuit of basic transmission and converter lock-up clutches) 16S151WSK, 16S221WSK, 16S251WSK	02H <sup>(2)</sup>	02H <sup>(2)</sup>
<b>TC Tronic</b> (Separate oil circuit of basic transmission and converter lock-up clutches) Basic transmission: 12TC2540, 12TC2740	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02L
Torque converter lock-up clutches: TC 2	02H <sup>(2)</sup> / ATF in accordance with TE-ML 14 <sup>(7)</sup>	02H <sup>(2)</sup> / ATF in accordance with TE-ML 14 <sup>(7)</sup>
<b>TC Tronic HD (Heavy Duty)</b> (Separate oil circuit of basic transmission and converter lock-up clutches) Basic transmission: 12AS3040TCIT	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L
Torque converter lock-up clutches: TCHD	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E
<b>NMV 1600L1, 2000L1, 2003L1, 1075K1</b> (engine-dependent PTO" with independent oil circuit)	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L

## 1.2 Buses

Product groups buses	Lubricant classes	
	First fill <sup>(5)</sup>	Service fill <sup>(6)</sup>
<b>Ecolite</b> S5-42, S6-36, S6-36/2, 5S600BO	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02L
<b>Ecolite</b> 6S890, 6S700BO	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H / 02L
<b>Ecolite without Intarder</b> S6-85, 6S1000BO, 6S1000BD, 6S1200BO, 6S1200BD, 6S1350BO, 6S1600BD, 6S1650BO, 6S1700BO, 6S1900BO	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02H / 02L
<b>Ecolite with Intarder</b> 6S1351BO, 6S1601BD, 6S1651BO, 6S1901BO, 6S1701BO	<a href="#">ZF-Ecofluid M</a> 02E / 02H	<a href="#">ZF-Ecofluid M</a> 02E / 02H / 02L
<b>Ecolite / AS Tronic lite</b> 6S710BO, 6AS710BO, 6S1010BO, 6AS1010BO, 6S1110BO, 6AS1110BO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02B <sup>(1)</sup> / 02E / 02L
<b>AS Tronic lite</b> Hydraulic actuators	02K	02K
<b>Ecomid without Intarder</b> 8S180, 8S2100BO, 8S2100BD	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02H	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02H / 02L
<b>Ecomid with Intarder</b> 8S180IT, 8S2101BO, 8S2101BD	<a href="#">ZF-Ecofluid M</a> 02E / 02H	<a href="#">ZF-Ecofluid M</a> 02E / 02H / 02L
<b>Classic Line</b> S6-1550, S6-820, S5-680, S6-680, S5-820, 6S1380BD	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02H	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02H / 02L
<b>AS Tronic without Intarder</b> 10AS2300BO, 10AS2310B, 10AS2700BO, 12AS2000BO, 12AS2300BO, 12AS2301, 12AS2700BO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02L
<b>AS Tronic with Intarder</b> 10AS2010BIT, 10AS2301IT, 10AS2310BIT, 12AS1601BO, 12AS2000BIT, 12AS2001BO, 12AS2300BIT, 12AS2301IT, 12AS2301BO, 12AS2701BO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L
<b>Ecoshift without Intarder</b> 6S1310BD, 6S1310BO, 6S1610BD, 6S1610BO, 6S1910BO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L
<b>Ecoshift with Intarder</b> 6S1311BD, 6S1311BO, 6S1611BD, 6S1611BO, 6S1911BO, 6S2111BO	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E / 02L

**1.3 Light commercial vehicles**

Product groups Light commercial vehicles	Lubricants / Lubricant classes	
	First fill <sup>(5)</sup>	Service fill <sup>(6)</sup>
5S200VO, 5S270VO, 6S300VD, 6S320VD, 6S350VD, 6S380VO, 6S420VO	<a href="#">ZF-Ecofluid M</a> 02E Petronas Gear Oil T.E. LD SAE 75W-80 Total Tranself LD SAE 75W80	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02L
eTronic 6AS300VD, 6AS320VD, 6AS380VO, 6AS400VO , 6AS420VO	Petronas Gear Oil T.E. LD SAE 75W-80 Total Tranself LD SAE 75W80	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02L
6S650, 6S720, 6S750	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02L
6S450 VW Amarok	<a href="#">ZF-Ecofluid M</a> VW spare part no. G 055 538 A2	
6S450 Mercedes-Benz Sprinter	<a href="#">ZF-Ecofluid M</a> 02E	<a href="#">ZF-Ecofluid M</a> 02E Exxon Mobil Gear Oil MB 317 Mercedes-Benz MB 235.10 -- Manual Transmission Oil A 001 989 26 03
5S400	Fuchs Titan EG MP 80 Petronas TUTELA OTZ (80W-90)	<a href="#">ZF-Ecofluid M</a> 02B / 02E

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

Product groups/Models/Versions	Lubricant classes
<b>Torque converter lock-up clutches (WSK)</b> with separate oil circuit	02H <sup>(2)</sup> / ATF in accordance with TE-ML 14 <sup>(7)</sup>
<b>Transmissions without ZF-Intarder</b> AS Tronic 1 (12AS1800, 16AS2200) Constant-mesh and synchronised transmissions for commercial vehicles	<a href="#">ZF-Ecofluid M</a> 02B / 02E / 02H / 02L
<b>Transmissions with ZF-Intarder</b> AS Tronic 1 (12AS1800IT, 16AS2200IT) Constant-mesh and synchronised transmissions for commercial vehicles	<a href="#">ZF-Ecofluid M</a> 02E / 02H / 02L

## 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
<b>Application</b>	<b>Oil and filter change intervals <sup>(3)</sup></b>			
- 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 <sup>(4)</sup>	---
- Outside temperatures > 40°C - Long-distance transport > 44 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 <sup>(4)</sup>	---
- 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	540.000 km 3 years <sup>(4)</sup>	---
- 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	40, 85W-90, 90	0°C
	30	- 15°C
	20W (Torque converter lock-up clutches TC 2 only)	- 40°C
	20W (Transmatic only)	- 40°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) Lubricants marked (\*) on the following pages must not be used.
- (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. In the case of transmissions filled ex-works with lubricant class 02E, no oil change must be effected during the first two years as of initial registration. In case of retrofitting or repair in this period, oil refills with lubricant class 02E are permitted. Exception: The limits of application in accordance with the TE-ML 02 (operating hours, mileage [km]) are already met prior to the expiration of the first two years.
- (5) First filling: Only the lubricant classes listed are permitted for initial fillings of transmissions.
- (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. In the case of transmissions filled ex-works with lubricant class 02E, due attention must always be paid to footer 4.
- (7) All lubricants of TE-ML 14 may be used. Oil change intervals and temperature limits of TE-ML 02 do apply.

**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  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 AVIA MINERALÖL-AG, MÜNCHEN/DE  
 BAHRAIN PETROLEUM COMPANY, AWALI /BH  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPESA COMERCIAL PETRÓLEO, 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  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 DAF TRUCKS NV, EINDHOVEN/NL  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 DEEP OIL TRADING COMPANY LLP, LONDON/GB  
 EXXONMOBIL CORPORATION, FAIRFAX, VA/US  
 EXXONMOBIL CORPORATION, FAIRFAX, VA/US  
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS  
 FABRIKA MAZIVA FAM AD, KRUŠEVAC/RS  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 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  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 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  
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIQUI MOLY GMBH, ULM/DE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MORRIS LUBRICANTS, SHREWSBURY/GB  
 MOTUL SA, AUBERVILLIERS/FR  
 NIS AD, NOVI SAD/RS  
 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  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PANOLIN AG, MADETSWIL/CH  
 PANOLIN AG, MADETSWIL/CH  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROGAL S.A., LISBOA/PT  
 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  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES

**Trade name (02B)**

ADDINOL GETRIEBEÖL GX 80W-90 ML  
 ARAL GETRIEBEÖL SNA-E 75W-90  
 ARAL GETRIEBEÖL EP PLUS 80W-90  
 ARAL GETRIEBEÖL EP 80W-90  
 AVIA SYNTOGEAR FE 80W-90  
 SPAREX HP 90 GL-4  
 TECTROL MULTIGEAR PLUS 8090  
 BP ENERGEGEAR HT 80W-90  
 BP ENERGEGEAR SHX-M 75W-90  
 BP ENERGEGEAR EP 80W-90  
 UNISYNT ZX SAE 75W90  
 GEAR ZX TP SAE 80W/90  
 CASTROL SYNTRAX UNIVERSAL 80W-90  
 CASTROL MANUAL EP 80W-90  
 SYNTRAX UNIVERSAL PLUS 75W-90  
 CEPESA TRANSMISIONES EP FE+LD 75W-90  
 MAN SUPER AXLE 3343 75W-90  
 TRANSLUBE LD SAE 80W  
 TRANSLUBE LD SAE 90  
 MULTIGEAR 80W-90  
 MULTIGEAR S 75W-90  
 GEAR TXS 75W90  
 GEAR TDM 80W  
 DAF SUPER 80W-90  
 TOR UNI GEAR LD 75W90  
 DRIVE RW FORCE S GL-5 75W-90  
 MOBILUBE 1 SHC 75W-90  
 MOBILUBE S 80W-90  
 MULTIHIPO 75W-90 SINT  
 MULTIHIPO 80W-90 F PLUS  
 FUCHS TITAN SUPERGEAR MC SAE 80W-90  
 G-TRUCK GL-4/GL-5 80W-90  
 G-BOX GL-4/GL-5 75W-90  
 OEST SYNTH GETRIEBEÖL SAE 75W-90  
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5  
 TITANIS SUPER GL-5 75W/90  
 TITANIS SUPER GL-5 80W-90  
 GULF GEAR XP DURA MAX 80W-90  
 GULF GEAR TDL 80W-90  
 GULF SYNGEAR 75W-90  
 GULF GEAR MZ 80W  
 GULF GEAR MZ 90  
 GULF GEAR MZ 85W-90  
 GULF GEAR MZ 80W-90  
 GULF GEAR ZX 80W  
 RTO LONGEVIA P ECO 80W-90  
 RTO LONGEVIA TCX ECO 75W-90  
 SYNTHGEAR 75W-90  
 GEAR M 80W-90  
 INA HIPENOL TDL 80W-90  
 INA HIPENOL SHD 75W-90  
 IPIRANGA ULTRAGEAR MB 80W  
 Q8 GEAR OIL XG SAE 80W-90  
 Q8 TRANS XGS 75W-90  
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90  
 LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)  
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-90  
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90  
 LODEXOL 80W-90  
 MOTUL GEAR SYNTH TDL 75W-90  
 NISOTEC HIPO LD ZF SAE 80W-90  
 MAXIGEAR D 75W-90  
 OMV UNIGEAR S SAE 75W-90  
 OMV UNIGEAR SAE 80W-90  
 LUKOIL TRANSMISSION TM-4/5 75W-90  
 LUKOIL TRANSMISSION TM-4 SAE 80W  
 LUKOIL TRANSMISSION TM-4 80W-90  
 LUKOIL TRANSMISSION TM-4 80W-85  
 LUKOIL TRANSMISSION UNI 80W-90  
 LUKOIL TRANSMISSION UNI S 75W-90  
 PLATINUM GEAR LL 80W-90  
 GLOBAL MULTIGEAR TS SAE 75W/90  
 PANOLIN TOPGEAR 80W/90  
 PANOLIN SUPER DUTY SYNTH 75W/90  
 LUBRAX TRM 4 SAE 80W  
 LUBRAX TRM 4 SAE 90  
 GALP TRANSVEX TDL 75W90  
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)  
 TUTELA TRANSMISSION STARGEAR HD (SAE 80W)  
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)  
 UNIGEAR GOLD 75W90  
 REPSOL CARTAGO FE LD 75W90

**ZF approval number**

ZF000672  
 ZF000142  
 ZF000460  
 ZF001715  
 ZF001432  
 ZF001694  
 ZF001160  
 ZF000200  
 ZF000208  
 ZF001216  
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 ZF000311  
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 ZF000423  
 ZF000462  
 ZF001477  
 ZF001477  
 ZF000980  
 ZF001017  
 ZF001028  
 ZF001738  
 ZF001203  
 ZF000451

**Manufacturer (02B)**

RN-LUBRICANTS, LLC, MOSCOW/RU  
 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  
 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  
 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  
 VALVOLINE CUMMINS LIMITED, GURGAON/IN  
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB  
 VIAL OIL LTD., FRYAZINO/RU  
 VIAL OIL LTD., FRYAZINO/RU  
 YACCO SAS, ST PIERRE LES ELBEUF/FR  
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (02B)**

TNK TRANS 80W-90  
 SYN GEAR DIFFERENTIAL OIL 75W-90  
 SHELL SPIRAX S3 AM 80W-90  
 SHELL SPIRAX S3 G 80W-90  
 SHELL SPIRAX S3 G 80W  
 SINOPEC GREATWALL MTF C-I 80W  
 SRS GETRIEBEFLUID SML 80W-90  
 SRS WIOLIN RSG 80  
 SRS GETRIEBEFLUID SXL 75W-90  
 GEARWAY S5 75W-90  
 TOTAL TRANSMISSION MDL 80W-90  
 TOTAL TRANSMISSION SYN FE 75W-90  
 TOTAL TRANSMISSION RS FE 80W-90  
 FINA PONTONIC FDL 75W-90  
 ELF TRANSELF SYNTHESE FE 75W-90  
 ELF TRANSELF UNIVERSAL FE 80W-90  
 TOTAL TRANSMISSION DUAL 9 FE 75W-90  
 VALVOLINE GEAR GARD PLUS 80W90  
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90  
 CONSOL TRANS LUX 80W-90  
 CONSOL TRANS LUX 75W-90  
 BVX 1000 75W-90  
 YORK 896 75W90  
 ZF-ECOFLUID X SAE 80W-90

**ZF approval number**

ZF001752  
 ZF000702  
 ZF001292  
 ZF001298  
 ZF001299  
 ZF001727  
 ZF000447  
 ZF000452  
 ZF001655  
 ZF001030  
 ZF001513  
 ZF001514  
 ZF001520  
 ZF001552  
 ZF001555  
 ZF001556  
 ZF001771  
 ZF000985  
 ZF001629  
 ZF000587  
 ZF000591  
 ZF001612  
 ZF000550  
 ZF001266

**Lubricant class 02E****Manufacturer (02E)**

ARAL AG, BOCHUM/DE  
 CASTROL LTD, LONDON/GB  
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES  
 DAF TRUCKS NV, EINDHOVEN/NL  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 HUILES BERLIET S.A., SAINT-PRIEST/FR  
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (02E)**

ARAL GETRIEBEÖL SNS-M 75W-80  
 CASTROL SYNTRANS Z LONG LIFE 75W-80  
 MAN SUPER GEAR 341-Z5  
 DAF XTREME 75W-80  
 FUCHS TITAN CYTRAC ULTRA SYNTH SAE 75W-80  
 RTO LONGEVIA BZV ECO 75W-80  
 TUTELA TRANSMISSION XT-D 540 (SAE 75W-80)  
 TOTAL TRANSMISSION XS FE 75W-80  
 TOTAL TRANSMISSION GEAR 9 FE 75W-80  
 ZF-ECOFLUID M SAE 75W-80

**ZF approval number**

ZF000130  
 ZF000609  
 ZF000528  
 ZF001390  
 ZF001457  
 ZF001260  
 ZF000532  
 ZF001132  
 ZF001773  
 ZF000522

**Lubricant class 02H****Note:**

1. In moderate climate zones, shift quality is impaired if viscosity grades higher than SAE 80W or SAE 30 are used.
2. Product group Transmatic/Torque converter lock-up clutches TC 2: With oil sump temperatures below -15°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. If possible, any one of the below-mentioned commercial products in the viscosity class SAE 20W is to be used.
3. Product group Transmatic/Torque converter lock-up clutches TC 2: The lubricants marked thus (\*) may not be used.

**Manufacturer (02H)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ADDINOL LUBE OIL GMBH, LEUNA/DE  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR  
 IPIRANGA PRODUTOS DE PETROLEO SA, RIO DE JANEIRO/BR  
 PANOLIN AG, MADETSWIL/CH  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY

**Trade name (02H)**

ADDINOL TURBO DIESEL MD 305 SAE 30  
 ADDINOL TURBO DIESEL MD 405 SAE 40 (\*)  
 URSA TRANS SAE 40 (\*)  
 FUCHS TITAN UNIVERSAL HD SAE 30 ZF  
 GULF SUPER DUTY LE 30  
 IPIRANGA ULTRAGEAR 40 (\*)  
 IPIRANGA ULTRAGEAR ZF 40 (\*)  
 PANOLIN EXTRA DIESEL 30  
 LUBRAX TRM 5 HD SAE 30  
 LUBRAX TRM 5 HD SAE 40 (\*)  
 TUTELA TRANSMISSION ZCS 160 (SAE 80W-90)

**ZF approval number**

ZF000624  
 ZF000625  
 ZF000821  
 ZF000719  
 ZF001147  
 ZF001340  
 ZF001764  
 ZF000393  
 ZF001174  
 ZF001175  
 ZF000026

**Lubricant class 02K**

**Manufacturer (02K)**

DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE

**Trade name (02K)**

PENTOSIN CHF 11S

**ZF approval number**

ZF000832

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

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES  
 CEPESA COMERCIAL PETRÓLEO, MADRID/ES  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 DAF TRUCKS NV, EINDHOVEN/NL  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 DEEP OIL TRADING COMPANY LLP, LONDON/GB  
 DEUTSCHE PENTOSIN WERKE GMBH, WEDEL/DE  
 DONGFENG COMMERCIAL VEHICLE CO. LTD, HUBEI/CN  
 EUROPART TRADING GMBH, HAGEN/DE  
 EXXONMOBIL CORPORATION, FAIRFAX, VA/US  
 EXXONMOBIL CORPORATION, FAIRFAX, VA/US  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 HAFA FRANCE, YVETOT/FR  
 IGOL FRANCE, AMIENS/FR  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MOL-LUB KFT, ALMASFUZITO/HU  
 OLIPES S.L., CAMPO REAL - MADRID/ES  
 OMV PETROL OFISI A.S., ISTANBUL/TR  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROGAL S.A., LISBOA/PT  
 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  
 S-OIL CORPORATION, SEOUL/KR  
 SASOL OIL, RANDBURG/ZA  
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB  
 SK LUBRICANTS, SEOUL/KR  
 STATOIL LUBRICANTS, STOCKHOLM/SE  
 STATOIL LUBRICANTS, STOCKHOLM/SE  
 TAMOIL ITALIA SPA, MILANO/IT  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 UNIL OPAL, SAUMUR/FR  
 YACCO SAS, ST PIERRE LES ELBEUF/FR  
 YORK LUBRICANTS - GINOUVES SAS, LA GARDE/FR  
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

**Trade name (02L)**

ADDINOL GETRIEBEÖL GS 75W-80 SL  
 TECTROL SYNTOGEAR MA 7580  
 MOTOREX PRISMA TF SAE 75W/80  
 CEPESA TRANSMISIONES FE+LD 75W-80  
 MAN SUPER GEAR 75W-80  
 MULTIGEAR MTF 75W-80  
 MULTIGEAR MTF 75W-80  
 GEAR TDS 75W80  
 DAF PREMIUM 75W-80  
 TOR MT/LD GEAR OIL 75W80  
 DRIVE RW FORCE HS GL-4 75W-80  
 PENTOSIN TLD 75W-80  
 DFCV-HDT 31  
 EUROPART SYNTHOGEAR INT. 75W80  
 MOBIL DELVAC XHP TRANSMISSION OIL 75W-80  
 MOBIL DELVAC 1 TRANSMISSION FLUID 75W-80  
 FUCHS TITAN CYTRAC MAN SYNTH SAE 75W-80  
 GULF SYNGEAR FE 75W-80  
 GEARTARDER SAE 75W-80  
 TRANS GEAR ZF PLUS 75W80  
 Q8 T 60 NTECH SAE 75W-80  
 LIQUI MOLY TRUCK GETRIEBEÖL HC GL4 SAE 75W-80  
 MEGOL PREMIUM GETRIEBEOEL HC GL 4 75W80  
 MOL HYKOMOL SYNTRANS 75W80  
 MAXIGEAR TS 7400 - SAE 75W-80  
 MAXIGEAR S 75W-80  
 OMV GEAR OIL LDI SAE 75W-80  
 LUKOIL TRANSMISSION TM-4 75W-80  
 LUKOIL TRANSMISSION LDI 75W-80  
 GOLDENGear LD PLUS SAE 75W/80  
 PAZ TRANS MAX 75W-80  
 LUBRAX GOLD XP SAE 75W-80  
 GALP TRANSVEX TDL ULTRA 75W80  
 TUTELA TRANSMISSION FE-GEAR (SAE 75W-80)  
 GEAR OIL MDV SILVER 75W80  
 KRÖNEN TRANSMISSION SYNTHETIC OIL 341  
 RAVENOL SSG SPEC SYNT LKW GETRIEBEÖL 75W-80  
 REPSOL CARTAGO CAJAS FE LD 75W80  
 S-OIL 7 GEAR EP LL  
 SYN GEARBOX OIL 75W-80  
 SHELL SPIRAX S6 GXME 75W- 80  
 SK GEAR EP 75W-80 ZF  
 GEARWAY S4 LT 75W-80  
 GEARWAY S4 75W-80  
 TAMOIL TAMGEAR PLUS SAE 75W-80  
 TOTAL TRANSMISSION MS FE 75W-80  
 TOTAL TRANSMISSION GEAR 8 FE 75W-80  
 GERION LD 75W80  
 BVX Z 1000 75W-80  
 YORK 994  
 DIVINOL SYNTHOGEAR INT. 75W80

**ZF approval number**

ZF000974  
 ZF001163  
 ZF001660  
 ZF000472  
 ZF000862  
 ZF000813  
 ZF001220  
 ZF001040  
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 ZF000634  
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