



Car Driveline
Technology

Manual and automatic transmissions for cars

List of lubricants TE-ML 11

Product groups	Approved lubricants for service fills
3HP22, 3HP22Q, 4HP14Q, 4HP18FL, 4HP18FLA (1), 4HP18FLE, 4HP18Q, 4HP22, 4HP22EH, 4HP22HL (2), 4HP24, 4HP24A (1)	Automatic Transmission Fluid (ATF) according to lubricant classes 11A / 11B => see overleaf for approved trade products
5HP18	According to BMW oil pan fill aperture label: 1. without oil pan fill aperture label Automatic Transmission Fluid (ATF) according to lubricant class 11B => see overleaf for approved trade products 2. with oil pan fill aperture label (green plugs) Esso ATF LT 71141 => BMW Oil No. 8322 9407807 Warning: use of incorrect lubricant can cause transmission failure
5HP30	According to spare part number of vehicle manufacturer: 1. Shell ATF LA-2634 => BMW Oil No. 8322 9407765 (oil pan fill aperture label) 2. Esso ATF LT 71141 => BMW Oil No. 8322 9407807 (oil pan fill aperture label) => Rolls Royce Oil No. PL 31493PA Warning: use of incorrect lubricant can cause transmission failure
4HP20 5HP19 5HP19FL, 5HP19FLA (1) 5HP19 HL, 5HP19 HLA (1) 5HP24, 5HP24A (1)	According to spare part number of vehicle manufacturer: Esso ATF LT 71141 => Audi Oil No. G 052162A1 => BMW Oil No. 8322 9407807 => Citroen Oil No. Z 000169756 => Jaguar Oil No. JLM 20238 => Mercedes Benz Oil No. A 0019892203 => Peugeot Oil No. Z 000169756 => Porsche Oil No. 999.917.547.00

- (1) Fill differential and transfer box with gear oil Burmah SAF-AG4 (Audi / VW Oil No. N 052145000, Porsche Oil No. 999.917.545.00).
- (2) Fill differential with gear oil API GL-5, MIL-L-2105D, MIL-PRF-2105E, SAE J 3260, SAE grade 75W-90 / 90.

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.

Note continuation of the table on page 2!

The list of lubricants TE-ML 11, Edition 01.10.2004 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 .	ZF Getriebe GmbH Südring D-66117 Saarbrücken phone: + 49 681 920-2497 fax: + 49 681 920-2388
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Product groups	Approved lubricants for service fills
6HP19, 6HP19A ⁽¹⁾ 6HP26, 6HP26A61 ⁽¹⁾ ⁽³⁾ 6HP32, 6HP32A ⁽¹⁾ 6HP26X	According to spare part number of vehicle manufacturer: Shell ATF M-1375.4 => BMW Oil No. 8322 0142516 => Jaguar Oil No. Jaguar Fluid 8342 => Audi Oil No. G 055005A2 => AML Oil No. Shell ATF M-1375.4 => Land Rover Oil No. Shell ATF M-1375.4 => Bentley Oil No. Shell ATF M-1375.4
6HP26A61 ⁽¹⁾ (Only for vehicles with Audi W12-engine)	According to spare part number of vehicle manufacturer: Shell ATF M-1375.6 => Audi Oil No. G 055162A2

Product groups	Approved lubricants for service fills
CVT VT1 CVT VT1F	According to spare part number of vehicle manufacturer: Esso EZL 799 and Esso FN 1975 => Rover Oil No. Unipart Transmatic ATF => BMW Oil No. 8322 0136376

Product groups	Approved lubricants for service fills
S5-31, S5-39, S6-37	According to spare part number of vehicle manufacturer: Esso Gear Oil 304 => BMW Oil No. 2300 1434404 Burmah BOT 338 => BMW Oil No. 2300 7533513
S6-53	According to spare part number of vehicle manufacturer: Esso Gear Oil 304 => BMW Oil No. 2300 1434404 Burmah BOT 338 => VW Oil No. N 05279800 Burmah BOT 338 => BMW Oil No. 2300 7533513

(1) Fill differential and transfer box with gear oil Burmah SAF-AG4 (Audi / VW Oil No. N 052145000, Porsche Oil No. 999.917.545.00).

(3) Does not apply for vehicles equipped with Audi W12-engine.

Lubricant class 11A

Automatic Transmission Fluid (ATF)

Manufacturer (11A)

ALEXANDRIA MINERAL OILS COMPANY, ALEXANDRIA/ET
 ARAL AG, BOCHUM/D
 AVIA MINERALÖL-AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CEPESA LUBRICANTS S.A., MADRID/E
 CEPESA LUBRICANTS S.A., MADRID/E
 CHEVRONTEXACO, GHENT/B
 CHEVRONTEXACO, GHENT/B
 CHEVRONTEXACO, GHENT/B
 CYCLON HELLAS S.A., MAROUSSI ATHENS/GR
 DE OLIEBRON B.V., ZWIJNDRECHT/NL
 ENI S.P.A. REFINING & MARKETING DIVISION, ROME/I
 EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
 EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
 FUCHS PETROLUB AG, MANNHEIM/D
 GENOL GMBH & CO., WIEN/A
 GINOUVES GEORGES SA, LA FARLEDE/F
 HANDEL MIJ NOVIOL B.V., NIJMEGEN/NL
 HUILES BERLIET S.A., SAINT PRIEST/F
 HYDROTEX, CARROLLTON, TEXAS/USA
 KRAFFT S.A., ANDOAIN/E
 LIQUI MOLY GMBH, ULM/D
 MAZIVA ZAGREB D.O.O, ZAGREB/HR
 MEGUIN GMBH & CO. KG MINERALOELWERKE, SAARLOUIS/D
 MORRIS LUBRICANTS, SHREWSBURY/GB
 MOTUL SA, AUBERVILLIERS CEDEX/F
 OMV AG, SCHWECHAT/A
 PAKELO MOTOR OIL S.R.L, SAN BONIFACIO (VR)/I
 PANOLIN AG, MADETSWIL/CH
 PETROGAL S.A., LISBOA/P
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D
 REPSOL LUBRICANTES, MADRID/E
 S.A.E.L., MADRID/E
 SHELL ASEOL AG, BERN 5/CH
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SLOVNAFT VURUP A.S., BRATISLAVA/SK
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D
 STATOIL LUBRICANTS, STOCKHOLM/S
 SUN OIL COMPANY (BELGIUM) N.V., AARTSELAAR/B
 SUN OIL COMPANY (BELGIUM) N.V., AARTSELAAR/B
 TEDEX OIL SP.Z.O.O., PIASECZNO/PL
 TEXACO BRASIL S.A., RIO DE JANEIRO/BR
 TEXACO BRASIL S.A., RIO DE JANEIRO/BR
 TOTAL LUBRIFIANTS S.A., PARIS/F
 TOTAL LUBRIFIANTS S.A., PARIS/F
 TOTAL LUBRIFIANTS S.A., PARIS/F
 UNIL S.A., SAUMUR CEDEX/F
 VALVOLINE EUROPE, DORDRECHT/NL
 VEEDOL INTERNATIONAL, PANGBOURNE READING/GB

Trade name (11A)

AMOC POWER (D-21611)
 ARAL GETRIEBEOL ATF 22
 AVIA FLUID ATF 86
 BAYWA ATF 3000
 ATF GM
 BP AUTRAN DX II
 BP AUTRAN MBX
 MOTOREX ATF SUPER
 CASTROL TQ-D (22256)
 CEPESA ATF 70
 ERTOL TRANSMISIONES AUTOMATICAS D2
 TEXAMATIC 4011
 TEXAMATIC 4291
 TEXAMATIC 9226
 ATF TYPE D
 TOR ATF 289
 AGIP ATF II D
 ESSO ATF D2
 MOBIL ATF 220
 TITAN ATF 3000
 GENOL ATF MULTIFLUID
 YORK 785
 KENDALL ATF DEXRON II D
 RTO STARMATIC
 HY-TORQUE Z (ATF)
 KRAFFT ATF 21247
 LIQUI MOLY ATF DEXRON IID
 INA ATF SUPER
 MEGOL HYDRAULIKOEL ATF DEXRON II D
 LIQUIMATIC D II
 MOTUL DEXRON II D
 OMV ATF D II (D22427)
 PAKELO MULTIPURPOSE TRANSMISSION FLUID II D
 PANOLIN ATF MULTI 21996
 GALP TRANSMATIC D II
 RAVENOL AUTOM.-GETR.-OEL DEXRON D II
 MATIC ATF
 GULF ATF D II D
 ASEOL ATF DB UNIVERSAL
 SHELL DONAX TA (D-21631)
 SHELL DONAX TA (D-21666)
 SHELL DONAX TA (D-21774)
 MADIT AUTOMATIC
 WINTERSHALL ATF D
 STATOIL TRANSWAY DX II
 SUNAMATIC 149
 SUNAMATIC 153
 TEDEX ATF DEXRON II D
 TEXAMATIC 4291
 TEXAMATIC B
 FINAMATIC II D
 TOTAL FLUIDE ATX
 TOTAL FLUIDE II D
 MATIC D
 VALVOLINE ATF TYPE D
 VEEDOL ATF-M (22764)

Lubricant class 11B

Automatic Transmission Fluid (ATF)

Manufacturer (11B)

ADDINOL LUBE OIL GMBH, LEUNA/D
AGIP SCHMIERTECHNIK GMBH, WÜRZBURG/D
ARAL AG, BOCHUM/D
AVIA MINERALÖL-AG, MÜNCHEN/D
BP INTERNATIONAL, PANGBOURNE, READING/GB
BP INTERNATIONAL, PANGBOURNE, READING/GB
CASTROL INTERNATIONAL, PANGBOURNE READING/GB
CASTROL INTERNATIONAL, PANGBOURNE READING/GB
EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
FL ITALIA S.P.A., VILLASTELLONE/I
FUCHS PETROLUB AG, MANNHEIM/D
GINOUVES GEORGES SA, LA FARLEDE/F
IGOL FRANCE SA, AMIENS/F
KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
MORRIS LUBRICANTS, SHREWSBURY/GB
OMV AG, SCHWECHAT/A
PANOLIN AG, MADETSWIL/CH
RAFINERIA NAFTY JEDLICZE SA, JEDLICZE/PL
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D
TOTAL LUBRIFIANTS S.A., PARIS/F
TOTAL LUBRIFIANTS S.A., PARIS/F
VEEDOL INTERNATIONAL, PANGBOURNE READING/GB
VEEDOL INTERNATIONAL, PANGBOURNE READING/GB
YACCO, ST PIERRE LES ELBEUF/F
ZELLER + GMELIN GMBH & CO., EISLINGEN/D
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/D

Trade name (11B)

ADDINOL ATF D III
AGIP DEXRON III
ARAL GETRIEBEÖL ATF 55 F-30589
AVIA FLUID ATF 98
BP AUTRAN DXIII
BP AUTRAN LTF
CASTROL TQ DEXRON III (F-30520)
CASTROL TRANSMAX Z
ESSO ATF D (21065)
ESSO ATF LT 71141
TUTELA HP 20
TITAN ATF 4000
YORK 686
ATF 430
Q8 AUTO 15
LIQUIMATIC SUPER ATF
OMV ATF III
PANOLIN ATF DEXRON III
HIPOL ATF III
WINTERSHALL ATF III
FINAMATIC HP
TOTAL FLUIDE AT 42
VEEDOL ATF DEXRON III (F-30521)
VEEDOL UNITRANS Z
YACCO ATF III
DIVINOL FLUID III F
ZF-ECOFLUID A