



Axles and wheel heads for buses and trucks

List of lubricants TE-ML 12

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1. Axles and wheel heads for buses

Product group	Lubricant classes for service fills ⁽¹⁾
Axles A series, wheel heads RL series	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N
Low-floor portal axles AV series	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N ZF EcoFluid XL SAE 75W-85 12F
Low-floor portal axles AV 133 with efficiency package	ZF EcoFluid XL SAE 75W-85 12F
Grease-lubricated wheel bearings with individual mounts at the front and rear axles	12G
Compact bearings (hub unit) in the wheel heads at the front and rear axles	12H
General greasing points	12G
General greasing points Lubrication by means of centralized lubricating system	12P

2. Electric axles for buses

Product group	Lubricant classes for service fills ⁽¹⁾
AVE 130	ZF EcoFluid X SAE 80W-90 12L
Compact bearing (hub unit) in the wheel heads at the central and rear axles of the AVE 130	12H

<p>The list of lubricants TE-ML 12, 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.</p>	<p>ZF Friedrichshafen AG D-88038 Friedrichshafen www.zf.com/contact</p>
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3. Axles for trucks

Product group	Lubricant classes for service fills ⁽¹⁾
APL 9000, APL 90	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N ZF EcoFluid XL SAE 75W-85 12F
Compact bearing (hub unit) in the wheel heads at the front axles of the APL 90	12H
General greasing points	12G

4. Oil level check, oil and grease change intervals, breather maintenance, ZF diaphragm breather

4.1 Axles and wheel heads for buses (A, AV and RL series)

Lubricant class	Operating conditions	Oil level check	Oil change intervals and breather maintenance, ZF diaphragm breather ⁽⁴⁾	Oil change intervals and breather maintenance, ZF diaphragm breather ⁽⁴⁾ Hot-country operation ⁽³⁾
12B, 12E	Line operation City operation Suburban operation Coaches	With each engine-oil change	150.000 km / 100,000 miles / 3 years ⁽²⁾	60.000 km / 40,000 miles / 1 year ⁽²⁾
	Coaches and suburban operation for A 133 axles with ZF diaphragm breather		200.000 km / 120,000 miles / 3 years ⁽²⁾	100.000 km / 60,000 miles / 1 year ⁽²⁾
ZF EcoFluid X SAE 80W-90 12M, 12N	Line operation City operation Suburban operation Coaches		180.000 km / 110,000 miles / 3 years ⁽²⁾	120.000 km / 80,000 miles / 2 years ⁽²⁾
	Coaches and suburban operation for A 133 axles with ZF diaphragm breather		300.000 km / 180,000 miles / 3 years ⁽²⁾	200.000 km / 120,000 miles / 2 years ⁽²⁾
ZF EcoFluid XL SAE 75W-85 12F	Line operation City operation Suburban operation for low-floor portal axles AV series		180.000 km / 110,000 miles / 3 years ⁽²⁾	120.000 km / 80,000 miles / 2 years ⁽²⁾
	Line operation City operation Suburban operation for low-floor portal axles AV 133 with efficiency package		300.000 km / 180,000 miles / 5 years ⁽²⁾	180.000 km / 110,000 miles / 3 years ⁽²⁾

Grease class	Operating conditions	Check	Change interval
12H - Compact bearings (hub unit) in the wheel heads at the front and rear axles	Line operation Suburban operation	Refer to ZF operating instructions	500.000 km / 310,000 miles / 4 years ⁽²⁾
	Coaches		800.000 km / 500,000 miles / 6 years ⁽²⁾
12G - Grease-lubricated wheel bearings with individual mounts at the front and rear axles	Line operation Suburban operation Coaches		500.000 km / 310,000 miles / 2 years ⁽²⁾
12G - General greasing points	Line operation Suburban operation Coaches		Relubrication 80.000 km / 50,000 miles / 1 year ⁽²⁾
12P - General greasing points Lubrication by means of centralized lubricating system	Line operation Suburban operation Coaches	Regular check of all lubricating points for escaping fresh grease	Observe provisions of centralized lubricating system manufacturer

4.2 Electric axles for buses (AVE 130)

Lubricant class	Operating conditions	Oil level check	Oil change intervals
ZF EcoFluid X SAE 80W-90 12L	Line operation	Refer to ZF operating instructions	60.000 km / 40,000 miles / 1 year ⁽²⁾





Grease class	Operating conditions	Check	Change interval
12H - Compact bearing (hub unit) in the wheel heads at the central and rear axles of the AVE 130	Line operation	Refer to ZF operating instructions	500.000 km / 310,000 miles / 4 years ⁽²⁾

4.3 Axles for trucks (APL 9000, APL 90)

Lubricant class	Operating conditions	Oil level check	Oil change intervals
ZF EcoFluid X SAE 80W-90 12B, 12E, 12M, 12N ZF EcoFluid XL SAE 75W-85 12F	-	With each engine-oil change	Initial oil change after 10 000 km / 7,000 miles Subsequent oil change interval 120.000 km / 80,000 miles / 2 years ⁽²⁾

Grease class	Operating conditions	Check	Change interval
12H - Compact bearing (hub unit) in the wheel heads at the front axles of the APL 90	-	Refer to specifications provided by the vehicle manufacturer	500.000 km / 310,000 miles / 4 years ⁽²⁾
12G - General greasing points	-		Relubrication according to the specifications provided by the vehicle manufacturer

5. Low temperatures limits

Viscosity grades	Use at outside temperatures
SAE 75W-85, 75W-90, 75W-110, 75W-140	- 40°C 
SAE 80W-90, 80W-110, 80W-140	- 26°C 
SAE 85W-90, 85W-110, 85W-140	- 12°C 
SAE 90	- 5°C 

6. Explanation of footnotes and comments

Footnotes

- (1) **Refer to the following pages for approved commercial products. Pay due attention to the note on oil level check, oil and grease change intervals, breather maintenance (ZF breather), and low temperature limits on Pages 2 and 3.**
When changing the oil type within one lubricant class or to another lubricant class, mixing of the new oil with the residual oil in the axle is permitted.
- (2) Change required, depending on what occurs first.
- (3) 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
Examples for possible countries or regions are:
- America: Mexico, USA (South and deserts)
- Whole Africa (without South Africa)
- Middle East: Bangladesh, India (regional), Pakistan, Afghanistan, Sri Lanka
- Near East: Iran, Iraq, Kuwait, Bahrain, Oman, Qatar, Saudi-Arabia, United Arab Emirates, Yemen, Israel, Lebanon, Syria, Egypt, Jordan
- Australia (deserts)
- China (deserts)
- (4) Change the filter insert on the ZF diaphragm breather at every oil change (see ZF Service Information 13/16d or 11/17)

Comments

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 12B**

Transmission oil

Viscosity grades: SAE 75W-90 / 75W-110 / 75W-140

Manufacturer (12B)CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB**Trade name (12B)**CASTROL TRANSMAX AXLE LONG LIFE 75W-90
CASTROL SAF-XO 75W-90**ZF approval number**ZF002142
ZF006097

Manufacturer (12E)

TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR

Trade name (12E)

TRAXIUM AXLE 7 80W-90
TRAXIUM AXLE 7 80W-90
TRANSELF TYPE B 80W-90
TRANSELF TYPE B 80W-90
DYNATRANS HD 80W 90
DYNATRANS HD 85W-140

ZF approval number

ZF008224
ZF008225
ZF008227
ZF008231
ZF008232
ZF008328

Lubricant class 12F

Transmission oil

Viscosity grades: SAE 75W-85

Manufacturer (12F)

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (12F)

SHELL SPIRAX S6 AZME 75W-85
ZF ECOFLUID XL SAE 75W-85

ZF approval number

ZF004894
ZF003441

Lubricant class 12G

Multi-purpose grease according to the specification / requirement:

- DIN 51825 classification at least KP2K-20
- ISO 6743-9 classification at least ISO-L-XBCEB2
- Consistency class: NLGI 2
- Base oil: API Group 1 / 2 / 3 / 4
- Thickener type: Li
- EP additives
- Temperature operation limits: min. -20°C to +120°C

Note:

All trade products which satisfy the above specifications may be used. There will be no product listing.

Lubricant class 12H

Lubricating grease for long-term lubrication of compact bearings (Hub Unit)

Manufacturer (12H)FUCHS PETROLUB AG, MANNHEIM/DE
FUCHS PETROLUB AG, MANNHEIM/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE**Trade name (12H)**RENOLIT LX-PEP 2
RENOLIT LX-NHU 2
ZF RENOLIT LX-PEP 2

Lubricant class 12L

Transmission oil

Viscosity grades: SAE 75W-90 / 80W-90

Manufacturer (12L)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/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
 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
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 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, KRUSEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 ENI SUSTAINABLE MOBILITY 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
 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
 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
 FUCHS PETROLUB SE, MANNHEIM/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 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
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOOVE LUBRICANTS, GRAVESEND/GB
 MOTOREX AG, LANGENTHAL/CH
 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
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN S.A., GDANSK/PL
 ORLEN S.A., GDANSK/PL
 OY TEBOil AB, HELSINKI/FI
 OY TEBOil AB, HELSINKI/FI
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 PETROL OFISI A.S., ISTANBUL/TR

Trade name (12L)

ADDINOL GETRIEBEÖL GX 80W-90 ML
 ADDINOL GETRIEBEÖL GH 75 W 90 SL
 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
 BELGIN LUBEX MITRAS AX EP MD 80W-90
 EVOLCA SGP 75W90
 EVOLCA BGP 80W90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 CASTROL TRANSMAX UNIVERSAL LL 75W-90
 CASTROL TRANSMAX AXLE LONG DRAIN 80W-90
 CEPSA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO GEAR TDL 80W-90
 DELO SYN-TDL 75W-90
 DELO GEAR CGA SAE 80W-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 HD-A PLUS 80W-90
 MOBILUBE S 80W-90
 MOBIL DELVAC 1 GEAR OIL 75W-90
 MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
 AVIATICON FINKOGEAR PREMIUM 75W-90
 AVIATICON FINKOGEAR SUPER 80W-90
 FUCHS TITAN CYTRAC HSY SAE 75W-90
 FUCHS TITAN GEAR HYP LD SAE 80W-90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 FUCHS TITAN CYTRAC RR SAE 75W-90
 GEARWAY S5 75W-90
 GEARWAY G5 80W-90
 FUCHS TITAN CYTRAC TD SAE 75W-90
 PENTOSIN GEAR PRO SAE 75W-90
 PENTOSIN GEAR ULTRA SAE 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 GULF GEAR TDL 80W-90
 GULF SYNGEAR 75W-90
 GULF GEAR LD 80W-90
 LONGEVIA TC ECO 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
 LIEBHERR SYNTOGEAR PLUS 75W-90
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 LUKOIL TRANSMISSION LD 80W-90
 MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
 MOL HYKOMOL TDL 75W90
 COMMA PRO EP 75W-90 TDL
 YORK 896 75W90
 MOTOREX YORK GEAR ZX TP SAE 80W/90
 MOTOREX YORK PENTA TL SAE 75W/90
 MOTOREX_YORK UNIVERSAL CT SAE 80W/90
 MOTOREX YORK UNISYNT ZX SAE 75W90
 MOTUL GEAR SYNTH TDL 75W-90
 MIDLAND SENSOGEAR 75W-90
 OTOKAR SPECTRA DO Z 80W-90
 PLATINUM GEAR LL 80W-90
 ORLEN OIL GEAR LL 80W-90
 TITANIS SUPER GL-5 75W/90
 TITANIS SUPER GL-5 80W-90
 TEBOil HYPOID SAE 75W-90
 TEBOil HYPOID SAE 80W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 PAZ GEAR LD 80W-90
 GALP TRANSVEX TDL 75W90
 GALP TRANSOIL HP XT 80W90
 MAXIGEAR D 75W-90
 MAXIGEAR TECH EP-X 80W-90

ZF approval number

ZF000672
 ZF002280
 ZF004780
 ZF004797
 ZF001160
 ZF005978
 ZF006035
 ZF004734
 ZF004735
 ZF002143
 ZF002144
 ZF004885
 ZF000086
 ZF000965
 ZF003554
 ZF002273
 ZF003353
 ZF003442
 ZF000829
 ZF000964
 ZF010792
 ZF000653
 ZF001456
 ZF000860
 ZF003364
 ZF000041
 ZF000042
 ZF000776
 ZF001681
 ZF003699
 ZF002249
 ZF002299
 ZF000642
 ZF000645
 ZF000722
 ZF000732
 ZF001030
 ZF001036
 ZF003341
 ZF004930
 ZF004931
 ZF000491
 ZF000565
 ZF000780
 ZF000863
 ZF001950
 ZF008379
 ZF008392
 ZF008361
 ZF000432
 ZF000977
 ZF000179
 ZF002103
 ZF009457
 ZF010966
 ZF006012
 ZF001323
 ZF001347
 ZF010972
 ZF010982
 ZF001183
 ZF001291
 ZF003365
 ZF003420
 ZF000550
 ZF006006
 ZF006007
 ZF006108
 ZF008207
 ZF000825
 ZF003680
 ZF004755
 ZF000311
 ZF011188
 ZF000356
 ZF001098
 ZF001969
 ZF001970
 ZF001224
 ZF003437
 ZF000980
 ZF001981
 ZF001591
 ZF001665

Manufacturer (12L)

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
 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
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SASOL ENERGY, JOHANNESBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TEDEX S.A., WARSZAWA/PL
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 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 (12L)

TUTELA TRANSMISSION FE-AXLE (SAE 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 CARTAGO LD 80W90
 REPSOL NAVIGATOR FE LL 75W-90
 REPSOL NAVIGATOR LL 80W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S3 AD 80W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S3 AM 80W-90
 SHELL SPIRAX S6 ADME 75W-90
 SINOPEC GREATWALL VT 75W/90
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
 SRS GETRIEBFLUID SML 80W-90
 SRS GETRIEBFLUID SXL 75W-90
 SRS WIOLIN HGAV 80W-90
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
 TRAXIUM DUAL 8 FE 80W-90
 TRAXIUM DUAL 9 FE 75W-90
 TRAXIUM AXLE 9 80W-90
 TRAXIUM AXLE 9 80W-90
 TRAXIUM AXLE 9 80W-90
 TRANSELF SYN FE 75W-90
 VALVOLINE HEAVY DUTY TDL PRO 75W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
 NESTE PRO AXLE TDL 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90
 DIVINOL MULTI-AXLE 80W90
 ZF ECOFLUID X SAE 80W-90

ZF approval number

ZF001189
 ZF001738
 ZF003639
 ZF001203
 ZF003606
 ZF006037
 ZF006038
 ZF000451
 ZF001141
 ZF008268
 ZF008269
 ZF003626
 ZF000702
 ZF001237
 ZF001262
 ZF001292
 ZF003334
 ZF000527
 ZF003332
 ZF000447
 ZF001655
 ZF010330
 ZF001342
 ZF004817
 ZF006074
 ZF008229
 ZF008230
 ZF008393
 ZF001283
 ZF001837
 ZF003631
 ZF003525
 ZF009462
 ZF001684
 ZF001266

Lubricant class 12M

Transmission oil

Viscosity grades: SAE 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

Manufacturer (12M)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BELGIN MADENI YAĞLAR TIC. VE SAN. A.Ş., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/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
 FUCHS PETROLUB SE, MANNHEIM/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 OPET FUCHS MADENI YAĞ. SAN. VE TIC. A.Ş., IZMIR/TR
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 ORLEN S.A., GDANSK/PL
 ORLEN S.A., GDANSK/PL
 OY TEBOil AB, HELSINKI/FI
 OY TEBOil AB, HELSINKI/FI
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 PETROGAL S.A., LISBOA/PT
 PETROL OFISI A.S., ISTANBUL/TR
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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
 TEDEX S.A., WARSZAWA/PL
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR
 TALENERGIES LUBRIFIANTS, NANTERRE/FR

Trade name (12M)

ADDINOL GETRIEBEÖL GX 80W-90 ML
 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 EP MD 80W-90
 EVOLCA BGP 80W90
 CASTROL TRANSMAX UNIVERSAL LL 80W-90
 CASTROL TRANSMAX AXLE LONG DRAIN 80W-90
 MULTIGEAR PREMIUM EP SAE 85W-140
 MULTIGEAR EP-5 SAE 80W-90
 DELO GEAR EP-5 SAE 85W-140
 DELO GEAR EP-5 SAE 80W-90
 DELO GEAR TDL 80W-90
 DELO GEAR CGA SAE 80W-90
 MULTIHIPO 80W-90 F PLUS
 MULTIHIPO 80W-140 F PLUS
 MOBILUBE HD-A PLUS 80W-90
 MOBILUBE S 80W-90
 MOBIL DELVAC 1 GEAR OIL 80W-140
 MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
 MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
 MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
 MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
 MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
 AVIATICON FINKOGEAR SUPER 80W-90
 FUCHS TITAN GEAR HYP LD SAE 80W-90
 FUCHS TITAN SUPERGEAR MC SAE 80W-90
 GEARWAY G5 80W-90
 PENTOSIN GETRIEBEÖL O-226 80W-90
 FUCHS TITAN SUPERGEAR SAE 85W-110
 TITAN SUPERGEAR MC SAE 80W-140
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
 GULF GEAR TDL 80W-90
 GULF GEAR LD 80W-90
 LONGEVIA TC ECO 80W-90
 INA HIPENOL TDL 80W-90
 Q8 AXLE OIL XG SAE 80W-140
 Q8 GEAR OIL XG SAE 80W-90
 Q8 SYNTHETIC GEAR OIL SAE 80W-140
 ROXOR TOPGEAR 80W-90
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
 LUKOIL TRANSMISSION LD 80W-90
 MEGOL HYPOID-GETRIEBEÖL TDL 80W-90
 MOTOREX YORK GEAR ZX TP SAE 80W/90
 MOTOREX_YORK UNIVERSAL CT SAE 80W/90
 MOTOREX YORK GEAR ZX TP SAE 80W/140
 OTOKAR SPECTRA DO Z 80W-90
 PLATINUM GEAR LL 80W-90
 ORLEN OIL GEAR LL 80W-90
 TITANIS SUPER GL-5 80W/140
 TITANIS SUPER GL-5 80W-90
 TEBOil HYPOID SAE 80W-90
 TEBOil HYPOID SAE 80W-140
 GLOBAL GEAR SA SAE 85W-140
 PAZ GEAR LD 80W-90
 TRAXON 80W-90
 TRAXON 85W-140
 TRAXON XL SYNTHETIC BLEND 80W-140
 TRAXON 80W-90
 TRAXON 85W-140
 GALP TRANSVEX TDL 85W140
 GALP TRANSOIL HP XT 80W90
 MAXIGEAR TECH EP-X 80W-90
 REPSOL CARTAGO LD 80W90
 REPSOL CARTAGO LD 85W140
 REPSOL NAVIGATOR LL 80W-90
 REPSOL NAVIGATOR LL 85W-140
 SHELL SPIRAX S3 AD 80W-90
 SHELL SPIRAX S3 AM 80W-90
 SHELL SPIRAX HD 80W-90
 SHELL SPIRAX HD 80W-90
 SHELL SPIRAX HD 80W-90
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SHELL SPIRAX S4 AX (80W-90)
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
 SRS GETRIEBEFÜLLSTOFF SML 80W-90
 SRS WIOLIN HGAV 80W-90
 TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
 TRAXIUM DUAL 8 FE 80W-90
 TRAXIUM AXLE 9 80W-90
 TRAXIUM AXLE 9 80W-90
 TRAXIUM AXLE 8 FE 80W-140

ZF approval number

ZF000672
 ZF004780
 ZF004797
 ZF001160
 ZF006035
 ZF004735
 ZF002143
 ZF004885
 ZF001196
 ZF002137
 ZF002254
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 ZF002273
 ZF003442
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 ZF011188
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 ZF003332
 ZF000447
 ZF010330
 ZF001342
 ZF004817
 ZF008229
 ZF008230
 ZF008296

Manufacturer (12M)

VALVOLINE EUROPE, DORDRECHT/NL
VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Trade name (12M)

VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
KUBOTA 80W-90 GEAR LUBRICANT HD
DIVINOL MULTI-AXLE 80W90
ZF ECOFLUID X SAE 80W-90

ZF approval number

ZF001837
ZF008218
ZF001684
ZF001266

Lubricant class 12N

Transmission oil

Viscosity grades: SAE 75W-90 / 75W-110 / 75W-140

Manufacturer (12N)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 BASF SE, LUDWIGSHAFEN/DE
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 CASTROL LTD, LONDON/GB
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 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, KRUSEVAC/RS
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 ENI SUSTAINABLE MOBILITY S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 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
 FUCHS PETROLUB SE, MANNHEIM/DE
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HUILES BERLIET S.A., SAINT-PRIEST/FR
 IGOL FRANCE, AMIENS/FR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LAEMMLE CHEMICALS AG, MADETSWIL/CH
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
 MEGUIN GMBH & CO. KG, SAAARLOUIS/DE
 MOL-LUB KFT, ALMASFUZITO/HU
 MOOVE LUBRICANTS, GRAVESSEND/GB
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTOREX AG, LANGENTHAL/CH
 MOTUL SA, AUBERVILLIERS/FR
 OEL-BRACK AG, HUNZENSCHWIL/CH
 ORLEN S.A., GDANSK/PL
 OY TEBOIL AB, HELSINKI/FI
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 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
 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
 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
 SASOL ENERGY, JOHANNESBURG/ZA
 SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
 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
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 YACCO SAS, ST PIERRE LES ELBEUF/FR

Trade name (12N)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
 EMGARD HP 75W-90
 BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90
 EVOLCA SGP 75W90
 CASTROL TRANSMAX UNIVERSAL LL 75W-90
 CEPESA TRANSMISIONES EP FE+LD 75W-90
 MAN SUPER AXLE 3343 75W-90
 CHAMPION OEM SPECIFIC 75W90 GL 5
 DELO SYN-GEAR XS 75W-140
 DELO SYN-TDL 75W-90
 GEAR TXS 75W90
 TOR UNI GEAR LD 75W90
 AVENO TDL ULTIMATE 75W-90
 MULTIHIPO 75W-90 SINT
 ENI ROTRA LSX 75W-90
 ENI ROTRA MP 75W-90
 MOBILUBE 1 SHC 75W-90
 MOBIL DELVAC 1 GEAR OIL 75W-90
 MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
 AVIATICON FINKOGEAR PREMIUM 75W-90
 FUCHS TITAN CYTRAC HSY SAE 75W-90
 FUCHS TITAN CYTRAC RR SAE 75W-90
 GEARWAY S5 75W-90
 FUCHS TITAN CYTRAC TD SAE 75W-90
 PENTOSIN GEAR PRO SAE 75W-90
 PENTOSIN GEAR ULTRA SAE 75W-90
 OEST SYNTH GETRIEBEÖL SAE 75W-90
 GULF SYNGEAR 75W-90
 LONGEVIA TCX ECO 75W-90
 SYNTHEGEAR 75W-90
 INA HIPENOL SHD 75W-90
 Q8 TRANS XGS 75W-90
 Q8 TRANS XGR 75W-140
 ROXOR SUPER DUTY SYNTH 75W-90
 ROXOR SUPER DUTY SYNTH 75W-140
 LIEBHERR SYNTOGEAR PLUS 75W-90
 LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)
 LUKOIL TRANSMISSION SYNTH BSX 75W-90
 MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90
 MOL HYKOMOL TDL 75W90
 COMMA PRO EP 75W-90 TDL
 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
 TITANIS SUPER GL-5 75W/90
 TEBOIL HYPOID SAE 75W-90
 GLOBAL MULTIGEAR TS SAE 75W/90
 GALP TRANSVEX TDL 75W90
 MAXIGEAR D 75W-90
 TUTELA TRANSMISSION X-ROAD (75W-140)
 TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
 TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
 PETRONAS TUTELA AXLE 700 EHD 75W-90
 PETRONAS TUTELA AXLE 700 EHD 75W-140
 UNIGEAR GOLD 75W90
 UNIGEAR GOLD 75W90
 RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90
 RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90
 RAVENOL TDG SAE 75W-110
 REPSOL CARTAGO FE LD 75W90
 REPSOL NAVIGATOR FE LL 75W-90
 ROLF TRANSMISSION S9 AGE 75W-90
 SYN GEAR DIFFERENTIAL OIL 75W-90
 SHELL SPIRAX S6 AXME 75W-90
 SHELL SPIRAX S 75W-140
 SHELL SPIRAX S6 ADME 75W- 90
 SHELL SPIRAX S6 AXME 75W-140
 SINOPEC GREATWALL VT 75W/90
 SRS GETRIEBEFLUID SXL 75W-90
 TRAXIUM DUAL 9 FE 75W-90
 TRANSELF SYN FE 75W-90
 VALVOLINE HEAVY DUTY TDL PRO 75W-90
 VALVOLINE HEAVY DUTY AXLE OIL PRO 75W-140
 NESTE PRO AXLE TDL 75W-90
 WOLF OFFICIALTECH 75W90 GL 5
 BVX 1000 75W-90

ZF approval number

ZF002260
 ZF001716
 ZF005978
 ZF004734
 ZF002144
 ZF000086
 ZF000965
 ZF003554
 ZF002274
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 ZF006037
 ZF006038
 ZF008351
 ZF000451
 ZF008268
 ZF003626
 ZF000702
 ZF001262
 ZF001380
 ZF003334
 ZF004860
 ZF000527
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 ZF006074
 ZF008393
 ZF001283
 ZF001874
 ZF003631
 ZF003525
 ZF009462

Lubricant class 12P

Lubricating grease according to specification / requirement:

- DIN 51502 classification at least GP 0/00/000 G -30
- ISO 6743-9 classification at least ISO-L-X C C E/F/H/I B 0/00/000
- Consistency class: NLGI 0 / 00 / 000
- Base oil: API Group 1 / 2 / 3 / 4
- Thickener type: Li / Ca
- EP additives
- Release of centralized lubricating system manufacturer for the used system must be available

Note:

- **All trade products can be used which comply with the specifications / requirements mentioned above.**
- **The system or vehicle operator ensures that a regular and reliable supply of the greasing points is guaranteed.**
- **The system or vehicle operator ensures that greasing supply is never insufficient at any lubricating point (automatic error message via system and regular visual inspection).**
- **The system manufacturer's provisions with regard to checking for escaping fresh grease and the change intervals must be observed.**