



**Hydrostatic-mechanical
and electric drive systems**

List of lubricants TE-ML 07

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1. Approved lubricant classes

Product groups	Lubricant classes for service fills ⁽¹⁾	Alternative lubricant classes for service fills ⁽¹⁾
Powershift transmissions / Transfer box HL AVG ⁽²⁾	07B / 07D / 07E / 07F	---
Continuously variable hydrostatic drives HC	Mechanical section: 07D Hydraulic section: 07D / 07H ⁽³⁾	---
Mobile mixer drives CML, CMe	Mechanical section: Gear oil ZF EcoFluid X (ZF No. 0681 000 412) Hydraulic section: 07D / 07H ⁽³⁾	---
Mobile mixer drives P3301, P4300, P5300, P6300, P7300 PK5300, PK6500, PK7500	07A / 07C / 07E	07D
Mobile mixer drives PLM P3200	07C / 07E	07D
Swing drives DR	07D / 07E / 07G / 07H	---
Transmissions for lifting equipment RME RMT	07A / 07E	---

The list of lubricants TE-ML 07, **edition 01.01.2024** 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.

ZF Friedrichshafen AG
D-88038 Friedrichshafen
www.zf.com/contact

2. Low temperature limits

Lubricant classes	Viscosity grades	Use at outside temperatures above ⁽⁴⁾	
		Hydrostatic-mechanical and electric drive - Hydraulic section	Hydrostatic-mechanical and electric drive - Mechanical section
07A (Gear oil)	SAE 75W-90, 75W-110, 75W-140	---	-40°C
	SAE 80W-85, 80W-90, 80W-110, 80W-140	---	-26°C
	SAE 85W-90, 85W-110, 85W-140, 90	---	-12°C
ZF EcoFluid X (Gear oil)	SAE 80W-90	---	-26°C
07B, 07C, 07D, 07F (STOU, engine oil, off highway lubricants)	SAE 5W-30, 5W-40	-35°C	-40°C
	SAE 10W-30, 10W-40	-30°C	-35°C
	SAE 15W-30, 15W-40	-25°C	-30°C
	SAE 20W-20	-20°C	-25°C
	SAE 20W-40	-20°C	---
	SAE 30	-5°C	-10°C
07E (Biodegradable lubricants)	SAE 75W-80	-35°C	-40°C
07G (Biodegradable lubricants)	ISO VG 46	---	-10°C
	ISO VG 68	---	-5°C
07H (hydraulic oil)	ISO VG 46	---	-10°C
	ISO VG 68	---	-5°C
	ISO VG 100	---	0°C

3. Explanation of footnotes and comments

- (1) Refer to the following pages for approved commercial products.
- (2) For AVGs directly mounted on ZF axles, use gear oils in accordance with TE-ML 05 for the common oil circuit of the transmission and axle.
- (3) Moreover, please observe the specifications provided by the vehicle manufacturer or hydraulic manufacturer.
- (4) An even warm-up phase is needed in order to reach the minimum oil temperature required for starting the drive unit (mentioned low temperature limit). At outside temperatures below -5°C, a warm-up phase of at least 10 minutes is required, irrespective of the viscosity grade used.

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. Greasing points

Multi-purpose grease according to the specification / requirement:

- DIN 51825 classification at least KP2K-20
and / or ISO 6743-9 classification at least ISO-L-XBCHB2
- Consistency class: NLGI 2
- Base oil: API Group 1 / 2 / 3 / 4
- Thickener type: lithium, lithium complex
- EP additives
- Temperature operation limits: min. -20°C to +120°C

5. Lubricant classes and approved trade products

Lubricant class 07A

Gear oil in accordance with Specification

- API GL-5 / MIL-L-2105D
- MIL-PRF-2105E
- SAE J2360

Viscosity grades: SAE 75W-90 / 75W-110 / 75W-140 / 80W-85 / 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

Base oil API Group 1 / 2 / 3 / 4

Note:

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

Lubricant class 07B

STOU (Super tractor oil universal)

Viscosity grades: SAE 10W-30 / 10W-40 / 15W-30 / 15W-40 / 20W-40

Manufacturer (07B)**Trade name (07B)****ZF approval number**

ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL SUPER TRAKTOR MU 1045	ZF003607
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F6 LANDINI	ZF003711
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F6 MCCORMICK	ZF003712
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F6 AGROLUBE	ZF003713
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F LANDINI	ZF003714
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F MCCORMICK	ZF003715
ARGO TRACTORS S.P.A., FABBRICO RE/IT	VELA F AGROLUBE	ZF003716
AVIA AG, MÜNCHEN/DE	TRACTAVIA SPEZIAL FE 10W-40	ZF001810
AVIA AG, MÜNCHEN/DE	TRACTAVIA 10W-40	ZF004811
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PATH EVO STOU SAE 10W-30	ZF004772
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PATH EVO STOU SAE 10W-40	ZF004773
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL SUPER 2000 CD-HC	ZF001205
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL UTTO-DVT	ZF009453
BP PLC., LONDON/GB	BP SUPER TOU 15W-40	ZF001592
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP 15W-40	ZF002166
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP 15W-40	ZF002170
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP 15W-40	ZF002171
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP PLUS 10W-40	ZF002181
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP PLUS 10W-30	ZF003416
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP PLUS 10W-40	ZF006089
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP PLUS 10W-30	ZF006090
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AGRI MP 15W-40	ZF006091
CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES	CEPSA AGRO PLUS 15W-40	ZF000321
CHEVRON LUBRICANTS, SAN RAMON, CA/US	SUPER TRACTOR SAE 15W-40	ZF000789
CLASS KGAA MBH, HARSEWINKEL/DE	CLAASE AGRI UNIVERSAL 300 15W-40	ZF001258
CLASS KGAA MBH, HARSEWINKEL/DE	AGRI UNIVERSAL 400 10W-40	ZF004872
CLASS KGAA MBH, HARSEWINKEL/DE	AGRI UNIVERSAL 300 15W-40	ZF008265
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL AGRI SUPER 15W-40	ZF005994
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL AGRI EXTRA 10W-40	ZF006008
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN 10W-40 AGRI UNIVERSAL	ZF009434
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC LEGEND 15W-40 AGRI UNIVERSAL	ZF009435
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM STOU MC SAE 10W-30	ZF000733
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM UTTO VT	ZF006013
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM STOU MC SAE 10W-30	ZF006095
FUCHS PETROLUB SE, MANNHEIM/DE	FUCHS AGRIFARM STOU MC SAE 10W-40	ZF006096
HUILES BERLIET S.A., SAINT-PIERRE/FR	POLY TP	ZF009420
INA MAZIVA LTD., ZAGREB/HR	INA AGRINA 15W-30	ZF001172
KROON-OIL B.V., ALMELO/NL	KROONTRAK CVT 10W40	ZF008246
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 1000 D SAE 10W-30	ZF000107
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 1000 SAE 15W-30	ZF000110
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 5000 SAE 10W-40	ZF002097
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL	Q8 T 1000 SAE 10W-30	ZF002107
MOTOREX AG, LANGENTHAL/CH	FARMER TRAC VARIANT SAE 10W/30	ZF000576
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK FARMER TRAC SAE 10W30	ZF006010
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK FARMER TRAC SAE 10W/40	ZF008205
MOTUL SA, AUBERVILLIERS/FR	MOTUL DS SUPER AGRI 10W-30	ZF001103
ORLEN S.A., GDANSK/PL	AGROL STOU PLUS CG-4 10W/40	ZF000607
ORLEN S.A., GDANSK/PL	AGROL STOU PLUS CG-4 10W/30	ZF000608
ORLEN S.A., GDANSK/PL	AGROLIS STOU PLUS SAE 10W-40	ZF001038
PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT	STOU FLUID SAE 15W/40	ZF002007
PETROGAL S.A., LISBOA/PT	GALP UNIAGRO 15W40	ZF000766
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 15W-40 (SAE 15W-40)	ZF000514
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR UNIVERSAL 15W-40 (SAE 15W-40)	ZF000604
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA SUPER UNIVERSAL 15W-30 (SAE 15W-30)	ZF000627
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR UNIVERSAL 10W-40 (SAE 10W-40)	ZF001138
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA VT SPECIAL (SAE 10W-40)	ZF001139
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 10W-30 (SAE 10W-30)	ZF001284
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA SUPER UNIVERSAL 10W-30 (SAE 10W-30)	ZF001375
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 10W-30 (SAE 10W-30)	ZF001925
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 15W-40 (SAE 15W-40)	ZF002090
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR UNIVERSAL 15W-40 (SAE 15W-40)	ZF002091
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 10W-30 (SAE 10W-30)	ZF002116
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA SUPER UNIVERSAL 15W-30 (SAE 15W-30)	ZF002126
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKROS UNIVERSAL 15W-40 (SAE 15W-40)	ZF003652
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 15W-40 (SAE 15W-40)	ZF003653
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR UNIVERSAL 15W-40 (SAE 15W-40)	ZF003654
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA SUPER UNIVERSAL 15W-30	ZF003660
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA UNIVERSAL 10W-30 (SAE 10W-30)	ZF003663
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CERES STOU 10W-40	ZF005943
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL FARMER CERES STOU 10W-40	ZF010165
SAME DEUTZ FAHR, TREVIGLIO/IT	SDF X-TREME	ZF002231
SAME DEUTZ FAHR, TREVIGLIO/IT	DF X-TREME	ZF002232
SAME DEUTZ FAHR, TREVIGLIO/IT	SDF TOP MULTIFUNCTION	ZF002233
SAME DEUTZ FAHR, TREVIGLIO/IT	DF TOP MULTIFUNCTION	ZF002234
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S4 TX	ZF006056
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 T (SAE 15W-40)	ZF006086
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS PRIMANOL 10W-30	ZF001695
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS PRIMANOL 10W-40	ZF001696
TAMOIL ITALIA SPA, MILANO/IT	TAMOIL SUPER TRACTOR SAE 15W-40	ZF000774
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TOTAL MULTAGRI MS 15W-40	ZF001154
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	ELF TRACTORELF ST3 15W-40	ZF001252
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	MULTAGRI PRO-TEC 10W-40	ZF004839
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	MULTAGRI UNIVERSAL 10W-40	ZF004863
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	TRACTORELF ULTRA 10W-40	ZF004865

Manufacturer (07B)

TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
UNIL OPAL, SAUMUR/FR
UNIL OPAL, SAUMUR/FR
UNIL OPAL, SAUMUR/FR
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Trade name (07B)

MULTAGRI SUPER 15W-40
MULTAGRI MS 15W-40
MULTAGRI SUPER 15W-40
AGRI UNIVERSAL 400 10W-40
MULTAGRI SUPER 10W-30
XANTHOS 10W40
XANTHOS ULTRA 10W40
XANTHOS ULTRA 15W40
DIVINOL SYNTRAC TS 10W40

ZF approval number

ZF008261
ZF008263
ZF008264
ZF008316
ZF010693
ZF003672
ZF003673
ZF003674
ZF001626

Lubricant class 07C

Engine oil

Viscosity grades: SAE 5W-40 / 10W-40 / 15W-40

Manufacturer (07C)

KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL

Trade name (07C)

Q8 T 750 SAE 15W-40

ZF approval number

ZF000125

Lubricant class 07D

Engine oil in accordance with specification

- API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4/CK-4
- API SF/SG/SH/SJ/SL/SM/SN
- ACEA-categories A/B/E

Viscosity grades:

Product groups in accordance with page 1	Viscosity grades
<ul style="list-style-type: none"> - Powershift transmissions HL, AVG - Continuously variable hydrostatic drives HC - Mobile mixer drives CML - hydraulic section - Swing drives DR 	SAE 5W-30 / 5W-40 / 10W-30 / 10W-40 / 15W-30 / 15W-40 / 20W-20 / 30
<ul style="list-style-type: none"> - Mobile mixer drives P-series, PK-series and PLM-series 	SAE 10W-40 / 15W-40

Note:

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

Lubricant class 07E

Biodegradable lubricant (Special approval)

Viscosity grade: SAE 75W-80

Instructions on the use of biodegradable lubricants:

The oil manufacturer's change-over directives included in the product description are to be observed when change-over to biodegradable lubricants is effected.

Manufacturer (07E)

PANOLIN DISTRIBUTION AG, MADETSWIL/CH

Trade name (07E)

PANOLIN BIOFLUID ZFH 10W/30

ZF approval number

ZF000391

Lubricant class 07F
Off highway lubricants
Viscosity grades: SAE 30

Manufacturer (07F)

ADDINOL LUBE OIL GMBH, LEUNA/DE
AVIA AG, MÜNCHEN/DE
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
CASTROL LTD, LONDON/GB
CATERPILLAR, INC., MOSSVILLE/US
CHAMPION CHEMICALS N.V., HEMIKSEM/BE
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, KRUSHEVAC/RS
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSHEVAC/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
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FUCHS PETROLUB SE, MANNHEIM/DE
GS CALTEX CORPORATION, SEOUL/KR
INA MAZIVA LTD., ZAGREB/HR
KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
MOL-LUB KFT, ALMASFUZITO/HU
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETROGAL S.A., LISBOA/PT
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PRISTA OIL HOLDING EAD, RUSE/BG
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
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
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
VALVOLINE EUROPE, DORDRECHT/NL
WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Trade name (07F)

ADDINOL FLUID TO-4 SAE 30
AVIA GEAR ALCAT 430
AVISTA PEAK EVO TO-4 SAE 30
TECTROL UTTO-TO
CASTROL TRANSMAX OFFROAD 30
CAT TDTO SAE 30
CHAMPION U.T.T. OIL 500
DELO TORQFORCE SAE 30
URSA TORQFORCE SAE 30
DELO TORQFORCE SAE 30
TRANSHIDO TO-4 SAE 30
VALVOLINE DT TRANSMISSION 30
MOBILTRANS HD 30
MOBILTRANS HD 30
MOBILTRANS HD 30
MOBILTRANS HD 30
MOBILTRANS HD 30
MOBILTRANS HD 30
MOBILTRANS HD 30
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MOBILTRANS HD 30
MOBILTRANS HD 30
FUCHS TITAN UTTO TO-4 SAE 30
KIXX GEARTEC TO-4 30
INA TRANSMATIK 30
Q8 TO-4 FLUID SAE 30
MOL TRANSFLUID TO-4 SAE 30
PRODURO TO-4 30
GALP MULTITRANS 30
TUTELA TRANS TO-4 (SAE 30)
PRISTA TO-4 30
RAVENOL CATOEL TO-4 SAE 30
REPSOL TRANSMISSIONS TO-4 SAE 30
REPSOL NAVIGATOR TO-4 SAE 30
SAVSOL ULTRA KES 3-30
SHELL SPIRAX S4 CX 30
SHELL SPIRAX S4 CX 30
SHELL SPIRAX S4 CX 30
SHELL SPIRAX S4 CX 30
SINOPEC PREMIUM HD 30 TRANSMISSION OIL
SRS WIOLIN 430
TEXSA TAC-4 30
MONTANA DYNAMIC HYDROTORK 4 30
TOTAL DYNATRANS ACX 30
VALVOLINE DT TRANSMISSION OIL SAE 30
WOLF TRACTOFLUID 500

ZF approval number

ZF000511
ZF003688
ZF004771
ZF002194
ZF000267
ZF000869
ZF003584
ZF001903
ZF001905
ZF006099
ZF001108
ZF006104
ZF000035
ZF004740
ZF004745
ZF008257
ZF008291
ZF008292
ZF008293
ZF009450
ZF002185
ZF002238
ZF002244
ZF003396
ZF002015
ZF005937
ZF000884
ZF001852
ZF003472
ZF008280
ZF009455
ZF000005
ZF000969
ZF001209
ZF005945
ZF001088
ZF001932
ZF001921
ZF003668
ZF002217
ZF008295
ZF003583

Lubricant class 07G

Biodegradable lubricant (Special approval)

Viscosity grade: ISO VG 46 / 68

Instructions on the use of biodegradable lubricants:

The oil manufacturer's change-over directives included in the product description are to be observed when change-over to biodegradable lubricants is effected.

Manufacturer (07G)

PANOLIN DISTRIBUTION AG, MADETSWIL/CH
PANOLIN DISTRIBUTION AG, MADETSWIL/CH

Trade name (07G)

PANOLIN HLP SYNTH 46
PANOLIN HLP SYNTH 68

ZF approval number

ZF000592
ZF002019

Lubricant class 07H

Hydraulic oil HLP/HVLP in accordance with DIN 51524-2/-3

Viscosity grades: ISO VG 46 / 68 / 100

Base oil API Group 1 / 2 / 3 / 4

Note:

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