



**Hydrostatic-mechanical
and electric drive systems**

List of lubricants TE-ML 07

Product groups	Lubricant classes for service fills (1)	Alternative lubricant classes for service fills (1)
Powershift transmissions HL AVG (2)	07B / 07D / 07E / 07F	---
Continuously variable hydrostatic drives HC	Mechanical section: 07D Hydraulic section: 07D / 07H (3)	---
Mobile mixer drives CML	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	---

(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.

A Multipurpose grease classified KP2K-20 acc. to DIN 51825 or ISO-L-XBCHB2 acc. to ISO 6743-9 must be used on greasing points (basic oil API Group 1, 2, 3 or 4, EP additives, lithium saponified, temperature use limits min. between -20 and +120° C, NLGI-Class 2).

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.

Caution: Pay due attention to the instructions given on low temperature limits on Page 2

The list of lubricants TE-ML 07, Edition 01.01.2011 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 Friedrichshafen AG D-88038 Friedrichshafen phone: + 49 7541 77 7181 fax: + 49 7541 77 7319	ZF Passau GmbH D-94030 Passau
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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	---
07E (Biodegradable lubricants)	SAE 75W-80	-35°C	-40°C
	ISO VG 46	---	-10°C
07G (Biodegradable lubricants)	ISO VG 68	---	-5°C
07H (hydraulic oil)			

- (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.

Lubricant class 07A

Gear oil in accordance with Specification
API GL-5 and MIL-L-2105D
or MIL-PRF-2105E
or 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

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)

ADDINOL LUBE OIL GMBH, LEUNA/D
 AGIP SCHMIERTECHNIK GMBH, WÜRZBURG/D
 ARAL AG, BOCHUM/D
 ARAL AG, BOCHUM/D
 ARAL AG, BOCHUM/D
 AVIA MINERALÖL-AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BEHRAN OIL CO., TEHRAN/IR
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CEPSA LUBRICANTS S.A., MADRID/E
 CEPSA LUBRICANTS S.A., MADRID/E
 CHEVRONTEXACO, GHENT/B
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/F
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/F
 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
 EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
 FUCHS PETROLUB AG, MANNHEIM/D
 FUCHS PETROLUB AG, MANNHEIM/D
 GENOL GMBH & CO., WIEN/A
 GINOUVES GEORGES SA, LA FARLEDE/F
 GINOUVES GEORGES SA, LA FARLEDE/F
 GRUPA LOTOS SA, GDANSK/PL
 GRUPA LOTOS SA, GDANSK/PL
 GRUPA LOTOS SA, GDANSK/PL
 HANDEL MIJ NOVIOL B.V., NIJMEGEN/NL
 IGOL FRANCE SA, AMIENS/F
 INA MAZIVA RIJEKA, RIJEKA/HR
 KRAFFT S.L., ANDOAIN/E
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 LANTMÄNNEN ENERGI AB, STOCKHOLM/S
 LANTMÄNNEN ENERGI AB, STOCKHOLM/S
 LIQUI MOLY GMBH, ULM/D
 LLK FINLAND OY, HAMINA/FIN
 MAGNA INDUSTRIAL CO. LIMITED, HONG KONG/HK
 MEGUIN GMBH & CO. KG MINERALÖELWERKE, SAARLOUIS/D
 MINERALÖL-RAFFIN. DOLLBERGEN, UETZE-DOLLBERGEN/D
 MINERALÖL-RAFFIN. DOLLBERGEN, UETZE-DOLLBERGEN/D
 MORRIS LUBRICANTS, SHREWSBURY/GB
 MOTUL SA, AUBERVILLIERS CEDEX/F
 NOVA STILMOIL SPA, MODENA/I
 OMV REFINING & MARKETING GMBH, WIEN/A
 PAKELO MOTOR OIL S.R.L., SAN BONIFACIO (VR)/I
 PANOLIN AG, MADETSWIL/CH
 PANOLIN AG, MADETSWIL/CH
 PETROGAL S.A., LISBOA/P
 PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL
 PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL

Trade name (07B)

ADDINOL SUPER TRAKTOR MU 1045 SAE 10W-40
 AUTOL AGROTECH SAE 10W-30
 ARAL SUPER TRAKTORAL SAE 10W-30
 ARAL SUPERTRAKTORAL 10W-40
 ARAL TRAKTORAL 10W-40
 TRACTAVIA FE 10W-40
 BAYWA SUPER 2000 CD-MC 10W-30
 BAYWA SUPER MULTISYN SL 10W-40
 TECTROL SUPER 2000 CD-HC
 TECTROL SUPER MULTISYN
 BEHRAN GARDAN VIJEH 56 SAE 15W-40
 ARISTOL TRACTOR OIL GMH 10W-40
 BP TERRAC SUPER UNIVERSAL 10W-40
 BP TERRAC UNIVERSAL 15W-30
 BP TERRAC UNIVERSAL 15W-40
 BP VANELLUS AGRI SUPER UNIVERSAL 10W-40
 BP VANELLUS AGRI UNIVERSAL 15W-40
 MOTOREX FARMER TRAC
 MOTOREX FARMER TRAC VARIANT SAE 10W/30
 CASTROL AGRI MP 15W-30
 CASTROL AGRI MP 15W-40
 CASTROL AGRI MP PLUS 10W-40
 CEPSA AGRO PLUS 15W-40
 ERTOIL MULTI AGRO 15W-40
 CALTEX SUPER TRACTOR SAE 15W-40
 MAXITRACT 15W40
 VICAM TP 10W40
 MULTITRAC 15W30
 AGIP SUPERTRACTOR UNIVERSAL 15W-40
 MOBIL AGRI EXTRA 10W-40
 MOBIL AGRI SUPER 10W-30
 MOBIL AGRI SUPER 15W-40
 AGRIFARM STOU 1030 MC
 AGRIFARM STOU 10W-40 MC
 GENOL TRAC-SYN 1040
 YORK 743 10W40
 YORK 743 15W40
 AGROL STOU PLUS CG-4 10W30
 AGROL STOU PLUS CG-4 10W40
 AGROLIS STOU PLUS 10W40
 KENDALL MULTIFARM SAE 15W-30
 PROLANDER MULTI SUPER
 INA AGRINA 15W-30
 STOU 15W40
 Q8 T 1000 D SAE 10W-30
 Q8 T 1000 D SAE 15W-30
 Q8 T 1000 SAE 10W-30
 Q8 T 1000 SAE 15W-30
 Q8 T 5000 SAE 10W-40
 AGROL TURBO KOMBI SAE 10W-30
 AGROL VARIOTRANS 10W-40
 TRAKTORÖL STOU SAE 10W-30
 TEBOIL MONITRA PLUS SAE 10W-30
 OMEGA 603 SAE15W40
 MEGOL SUPER TRAKTORENOEL STOU SAE 10W-30
 PENNASOL SUPER TRACTOR UNIVERSALOEL STOU 10W30
 PENNASOL SUPER TRACTOR UNIVERSALOEL STOU 15W30
 SUPER VERSITRAC
 MOTUL DS SUPER AGRI 10W-30
 MF LUBE+ AGRILUBE UNIVERSAL 10W30
 OMV AUSTRORTRAC SAE 10W-40
 PAKELO STOU FLUID SAE 15W/40
 PANOLIN STOU 10W/30
 PANOLIN STOU 15W/30
 GALP UNIAGRO 15W40
 AKCELA MULTI TRACTOR (SAE 10W40)
 AKCELA SUPER UNIVERSAL (SAE 10W30)

PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AKCELA SUPER UNIVERSAL (SAE 15W40)
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AKROS MULTI VT (SAE 10W-30)
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AKROS UNIVERSAL SAE 10W30
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AKROS UNIVERSAL SAE 15W40
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AMBRA UNIVERSAL SAE 10W30
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AMBRA UNIVERSAL SAE 15W40
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	AMBRA VT SPECIAL (10W40)
PETRONAS LUBRICANTS INTERN., KUALA LUMPUR/MAL	ARBOR UNIVERSAL (SAE 15W40)
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D	RAVENOL SUTO SAE 15W-30
REPSOL YPF LUBRICANTES Y ESPECIALIDADES, MADRID/E	AGRO CERES STOU SAE 15W40
REPSOL YPF LUBRICANTES Y ESPECIALIDADES, MADRID/E	REPSOL CERES S.T.O.U. 10W40
SAME DEUTZ-FAHR DEUTSCHLAND GMBH, LAUINGEN/D	DF TOP MULTIFUNCTION 15W40
SAME DEUTZ-FAHR DEUTSCHLAND GMBH, LAUINGEN/D	DF X-TREME OIL 10W40
SAME DEUTZ-FAHR DEUTSCHLAND GMBH, LAUINGEN/D	SDF TOP MULTIFUNCTION 15W40
SAME DEUTZ-FAHR DEUTSCHLAND GMBH, LAUINGEN/D	SDF X-TREME OIL 10W40
SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB	SHELL HARVELLA T 15W-40
SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB	SHELL HARVELLA TX 10W-40
SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB	SHELL SPIRAX S3 T
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D	SRS PRIMANOL 10W-30
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D	SRS PRIMANOL 10W-40
STRUB + CO AG, REIDEN/CH	SUPER TRACTOROEL UNI.10W-30 (STOU)
SYNECO SPA, SAN GIULIANO MILANESE/I	MULTITRACTOR STOU 15W40
TAMOIL ITALIA S.P.A., MILANO/I	SUPER TRACTOR SAE 15W/40
TOTAL LUBRIFIANTS S.A., PARIS/F	FINA SUPER UNIVERSAL OIL SAE 15W-40
TOTAL LUBRIFIANTS S.A., PARIS/F	TOTAL MULTAGRI MS SAE 15W-40
TOTAL LUBRIFIANTS S.A., PARIS/F	TOTAL MULTAGRI SUPER 10W-30
TOTAL LUBRIFIANTS S.A., PARIS/F	TRACTORELF ST3 SAE 15W-40
UNIL OPAL, SAUMUR CEDEX/F	XANTHOS 10W40
VALVOLINE EUROPE, DORDRECHT/NL	VALVOLINE STOU 10W-30
VALVOLINE EUROPE, DORDRECHT/NL	VALVOLINE STOU 15W-30
VALVOLINE EUROPE, DORDRECHT/NL	VALVOLINE STOU 15W-40

Lubricant class 07C

Engine oil

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

Manufacturer (07C)

ADDINOL LUBE OIL GMBH, LEUNA/D
 ARAL AG, BOCHUM/D
 CEPESA LUBRICANTS S.A., MADRID/E
 CEPESA LUBRICANTS S.A., MADRID/E
 KOMPRESSOL-OEL VERKAUFS GMBH, KÖLN/D
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 MTU ASIA PTE LTD, SINGAPORE/SGP
 NOVA STILMOIL SPA, MODENA/I
 PAKELO MOTOR OIL S.R.L., SAN BONIFACIO (VR)/I
 PETRONAS LUBRICANTS BELGIUM NV, AARTSELAAR/B
 PRISTA OIL EAD, ROUSSE/BG
 PRISTA OIL EAD, ROUSSE/BG
 PRISTA OIL EAD, ROUSSE/BG
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D
 STRUB + CO AG, REIDEN/CH

Trade name (07C)

ADDINOL SUPER STAR MX 1547 SAE 15W-40
 ARAL SUPERTURBORAL 5W-30
 CEPESA DIESEL TURBO SHPD 15W-40
 CEPESA SUPER MULTIGRADO SHPD 15W-40
 KOMPRESSOL-ULTRALUB C SAE 15W-40
 Q8 T 500 SAE 15W-40
 Q8 T 710 SAE 15W-40
 Q8 T 750 SAE 15W-40
 FASCINATION OF POWER SAE 15W40
 ORION SUPER PLUS 15W40
 PAKELO PKO HD SUPER 4 SAE 15W/40
 FORZA SAE 15W40
 PRISTA LEADER TD 15W-40
 PRISTA SHPD 15W-40
 PRISTA SHPD VDS-3 15W-40
 RAVENOL FORMEL DIESEL SUPER 15W-40
 RAVENOL MINERALOEL TURBO-PLUS SHPD 15W-40
 RAVENOL TURBO-C HD-C 15W-40
 SHELL RIMULA R3 X 15W-40
 SHELL RIMULA X 15W-40
 SRS MULTI - REKORD TOP
 SUPER MULTI TURBO 15W-40

Lubricant class 07D

Engine oil in accordance with Specification
 API CD/CE/CF-4/CF/CG-4/CH-4/CI-4
 or API SF/SG/SH/SJ/SL
 or ACEA-categories A/B/E

Viscosity grades:

Product groups in accordance with page 1	SAE viscosity grades
<ul style="list-style-type: none"> - Powershift transmissions - Continuously variable hydrostatic drives - Mobile mixer drives CML - hydraulic section - Swing drives 	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 	10W-40 / 15W-40

Note:

All mineral oil-based gear oils 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 AG, MADETSWIL/CH

Trade name (07E)

PANOLIN BIOFLUID ZFH

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

Manufacturer (07F)

ADDINOL LUBE OIL GMBH, LEUNA/D
 ARAL AG, BOCHUM/D
 BAYWA AG, MÜNCHEN/D
 BAYWA AG, MÜNCHEN/D
 BP INTERNATIONAL, PANGBOURNE, READING/GB
 BUCHER AG LANGENTHAL, LANGENTHAL/CH
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CASTROL INTERNATIONAL, PANGBOURNE READING/GB
 CATERPILLAR INC., PEORIA/USA
 CEPESA LUBRICANTS S.A., MADRID/E
 CHEVRONTEXACO GLOBAL LUBRICANTS, SAN RAMON/USA
 CHEVRONTEXACO GLOBAL LUBRICANTS, SAN RAMON/USA
 CHEVRONTEXACO, GHENT/B
 CHEVRONTEXACO, GHENT/B
 CHEVRONTEXACO, GHENT/B
 ENI S.P.A. REFINING & MARKETING DIVISION, ROME/I
 EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
 EXXON MOBIL CORPORATION, FAIRFAX, VIRGINIA/USA
 FABRIKA MAZIVA FAM A.D, KRUEVAC/SRB
 FUCHS PETROLUB AG, MANNHEIM/D
 GINOUVES GEORGES SA, LA FARLEDE/F
 KUWAIT PETROLEUM R&T B.V., EUROPOORT RT/NL
 LLK FINLAND OY, HAMINA/FIN
 LUBRICANT OIL COMPANY, SINOPEC, BEIJING/CN
 MAZIVA ZAGREB D.O.O, ZAGREB/HR
 MORRIS LUBRICANTS, SHREWSBURY/GB
 OMV REFINING & MARKETING GMBH, WIEN/A
 PETRONAS LUBRICANTS BELGIUM NV, AARTSELAAR/B
 PRISTA OIL EAD, ROUSSE/BG
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/D
 REPSOL YPF LUBRICANTES Y ESPECIALIDADES, MADRID/E
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D
 TOTAL LUBRIFIANTS S.A., PARIS/F

Trade name (07F)

ADDINOL FLUID TO-4 SAE 30
 ARAL FLUID TO-4 SAE 30
 BAYWA MOTORENÖL HDC SAE 30
 TECTROL UTTO - TO
 BP AUTRAN 430 SAE 30
 GEAR OIL MEGA TO-4 SAE 30
 CASTROL TFC 430
 CASTROL TRANSMAX OFFROAD 30 SAE 30
 CAT TDTO SAE 30
 CEPESA TRANSMISIONES TO-4 SAE 30
 CHEVRON DRIVE TRAIN FLUID HD SAE 30
 TEXACO TRANSMISSION & DRIVE TRAIN TO-4 OIL SAE 30
 CALTEX TORQUE FLUID 434
 CALTEX TORQUE FLUID 434A
 TEXTRAN HD 30
 ROTRA CT 30
 ESSOTRANS/EXXTRANS 30
 MOBILTRANS HD 30
 TANSHIDO TO-4 SAE 30
 TITAN UTTO TO-4 SAE 30
 YORK 792 SAE 30
 Q8 TO-4 FLUID SAE 30
 TEBOIL FLUID TO-4 SAE 30
 GREAT WALL TRANS FLUID 30
 INA TRANSMATIK 30
 LIQUIMATIC CT 30
 OMV CONSTRUCT TO-4 SAE 30
 CATRALUBE 30
 PRISTA TO-4 30
 RAVENOL CATOEL TO-4 SAE 30
 TRANSMISIONES TO-4 SAE 30
 SHELL DONAX TC 30
 SHELL SPIRAX S4 CX 30
 SRS WIOLIN 430
 TOTAL DYNATRANS AC 30

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)

CATERPILLAR INC., PEORIA/USA

COGNIS DEUTSCHLAND GMBH, MONHEIM/D

COGNIS DEUTSCHLAND GMBH, MONHEIM/D

PANOLIN AG, MADETSWIL/CH

Trade name (07G)

CAT BIO HYDO ADVANCED

PROECO HE 801, ISO-VG 46

PROECO HE 801, ISO-VG 68

PANOLIN HLP SYNTH 46

Lubricant class 07H

Mineral oil-based hydraulic oil HLP in accordance with DIN 51524-2 or mineral oil-based hydraulic oil HVLP in accordance with DIN 51524-3.

Viscosity grades: ISO VG 46 / 68

Note:

All mineral oil-based gear oils which satisfy the above specifications may be used. There will be no product listing.