



Transmissions for industrial and mobile applications

List of lubricants TE-ML 27

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1. Approved lubricant classes

Product groups	Lubricant classes for service fills ^(1, 2)
Gearboxes for industrial and mobile applications of ZF Industrieantriebe Witten GmbH GPT, GFC, GPT-W, GFB, GME, GMH, IMK, GPC, GFA, GP	27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J

2. Explanation of footnotes and comments

Footnotes

- (1) The required viscosity class is described in the operating instruction or on the rating plate. In addition, the ZFN-W 17-184 in the operating instruction must be considered.
- (2) Refer to the following pages for approved commercial products.
- (3) The pour point helps the user to determine how suitable the gear oil is for use in cold weather. The specified pour point is based on the information supplied by the relevant manufacturer (product data sheet) at the time of creating this Standard. ZF Industrieantriebe Witten GmbH does not check or monitor this information. The pour point, as defined in DIN ISO 3016, is not the same as the oil's lowest operating temperature. If you require this information, please contact the lubricant manufacturer or supplier.

Comments

A lithium saponified multipurpose grease of NLGI class 3 which is mixable with mineral oil is to be used at greasing points (grease code KP3K-30 in acc. with DIN 51825 or ISO-L-XCCHB3 in accordance with ISO 6743-9).

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.

The list of lubricants TE-ML 27, edition 10.10.2024 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
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3. Lubricant classes and approved trade products

Lubricant class 27A

Lubricant CLP mineral oil

Viscosity class: ISO VG 100

Manufacturer (27A)

EXXONMOBIL

OLMA d.o.o.

SHELL

Trade name (27A)

MOBILGEAR 600 XP 100

OLMAREDOL FL 100

OMALA S2 GX 100

Pour point [°C] (3)

-24

-18

-24

Lubricant class 27B

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 100

Manufacturer (27B)

KLÜBER LUBRICATION

Trade name (27B)

KLÜBERSYNTH GEM 4-100 N

Pour point [°C] (3)

-40

Lubricant class 27C

Lubricant CLP mineral oil

Viscosity class: ISO VG 150

Manufacturer (27C)

ADVANCED LUBRICATION SPECIALTIES, INC.
EXXONMOBIL
NILS S.P.A.
OLMA d.o.o.
PETROCHINA LUBRICANT COMPANY
SHELL
SUNOCO LUBRICANTS
VERKOL S.A.U A QUAKER HOUGHTON COMPANY
YORK SAS

Trade name (27C)

ADVANTAGE AMP GEAR OIL 150
MOBILGEAR 600 XP 150
ATOIL MP 150
OLMAREDOL FL 150
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 150
OMALA S2 GX 150
SUNOCO SUNEP MPT GEAR OIL 150
COMPOUND MP 150
YORK RE 5000 150

Pour point [°C] (3)

-24
-24
-21
-18
-24
-24
-24
-24
-21

Lubricant class 27D

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 150

Manufacturer (27D)	Trade name (27D)	Pour point [°C] (3)
EXXONMOBIL	MOBIL SHC GEAR 150	-45
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-150N	-40
NILS S.P.A.	ATOIL SYNT MP 150	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 150	-54
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 150	-54
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 150	-51
TOTAL	CARTER SH 150	-48
YORK SAS	YORK 897 150	-51

Lubricant class 27E

Lubricant CLP mineral oil

Viscosity class: ISO VG 220

Manufacturer (27E)

ADVANCED LUBRICATION SPECIALTIES, INC.
EXXONMOBIL
NILS S.P.A.
OLMA d.o.o.
PETROCHINA LUBRICANT COMPANY
SHELL
SUNOCO LUBRICANTS
VERKOL S.A.U A QUAKER HOUGHTON COMPANY
YORK SAS

Trade name (27E)

ADVANTAGE AMP GEAR OIL 220
MOBILGEAR 600 XP 220
ATOIL MP 220
OLMAREDOL FL 220
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 220
OMALA S2 GX 220
SUNOCO SUNEP MPT GEAR OIL 220
COMPOUND MP 220
YORK RE 5000 220

Pour point [°C] (3)

-21
-24
-21
-12
-21
-18
-21
-21
-21

Lubricant class 27F

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 220

Manufacturer (27F)	Trade name (27F)	Pour point [°C] (3)
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 220	-39
EXXONMOBIL	MOBIL SHC GEAR 220	-39
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-220 N	-40
NILS S.P.A.	ATOIL SYNT MP 220	-45
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 220	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 220	-48
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 220	-48
SHELL	OMALA S4 GXV 220	-42
TOTAL	CARTER SH 220	-45
YORK SAS	YORK 897 220	-48

Lubricant class 27G

Lubricant CLP mineral oil

Viscosity class: ISO VG 320

Manufacturer (27G)

ADVANCED LUBRICATION SPECIALTIES, INC.
EXXONMOBIL
OLMA d.o.o.
PETROCHINA LUBRICANT COMPANY
SHELL
SUNOCO LUBRICANTS
VERKOL S.A.U A QUAKER HOUGHTON COMPANY

Trade name (27G)

ADVANTAGE AMP GEAR OIL 320
MOBILGEAR 600 XP 320
OLMAREDOL FL 320
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 320
OMALA S2 GX 320
SUNOCO SUNEP MPT GEAR OIL 320
COMPOUND MP 320

Pour point [°C] (3)

-15
-24
-13
-15
-15
-15
-12

Lubricant class 27H

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 320

Manufacturer (27H)	Trade name (27H)	Pour point [°C] (3)
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 320	-39
EXXONMOBIL	MOBIL SHC GEAR 320	-33
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-320 N	-35
NILS S.P.A.	ATOIL SYNT MP 320	-42
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 320	-45
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 320	-45
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 320	-45
SHELL	OMALA S4 GXV 320	-42
TOTAL	CARTER SH 320	-42
YORK SAS	YORK 897 320	-45

Lubricant class 27I

Lubricant CLP mineral oil

Viscosity class: ISO VG 460

Manufacturer (27I)

ADVANCED LUBRICATION SPECIALTIES, INC.
EXXONMOBIL
OLMA d.o.o.
PETROCHINA LUBRICANT COMPANY
SHELL
SUNOCO LUBRICANTS
VERKOL S.A.U A QUAKER HOUGHTON COMPANY

Trade name (27I)

ADVANTAGE AMP GEAR OIL 460
MOBILGEAR 600 XP 460
OLMAREDOL FL 460
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 460
OMALA S2 GX 460
SUNOCO SUNEP MPT GEAR OIL 460
COMPOUND MP 460

Pour point [°C] (3)

-15
-15
-13
-15
-12
-15
-9

Lubricant class 27J

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 460

Manufacturer (27J)	Trade name (27J)	Pour point [°C] (3)
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 460	-36
EXXONMOBIL	MOBIL SHC GEAR 460	-27
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-460 N	-30
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 460	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 460	-48
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 460	-42
SHELL	OMALA S4 GXV 460	-42
TOTAL	CARTER SH 460	-42