



## 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 <sup>(1, 2)</sup>
Gearboxes for industrial and mobile applications of ZF Industrieantriebe Witten GmbH GPT, GFC, GPT-W, GFB, GME, GMH, IMK, GPC, GFA, GP	<b>27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J</b>

## 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 01.04.2026** 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](http://www.aftermarket.zf.com/lubricants).

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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)	Trade name (27A)	Pour point [°C] (3)
EXXONMOBIL	MOBILGEAR 600 XP 100	-24
OLMA d.o.o.	OLMAREDOL FL 100	-18
SHELL	OMALA S2 GX 100	-24

**Lubricant class 27B**

Lubricant CLP poly-alpha-olefin oils or partially synthetic  
Viscosity class: ISO VG 100

Manufacturer (27B)	Trade name (27B)	Pour point [°C] (3)
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-100 N	-40

**Lubricant class 27C**

Lubricant CLP mineral oil

Viscosity class: ISO VG 150

**Manufacturer (27C)**

EXXONMOBIL  
NILS S.P.A.  
OLMA d.o.o.  
PETROCHINA LUBRICANT COMPANY  
SHELL  
SINOPEC LUBRICANT CO., LTD.  
YORK SAS

**Trade name (27C)**

MOBILGEAR 600 XP 150  
ATOIL MP 150  
OLMAREDOL FL 150  
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 150  
OMALA S2 GX 150  
AP INDUSTRIAL GEAR OIL 150  
YORK RE 5000 150

**Pour point [°C] (3)**

-24  
-21  
-18  
-24  
-24  
-23  
-21

**Lubricant class 27D**

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 150

<b>Manufacturer (27D)</b>	<b>Trade name (27D)</b>	<b>Pour point [°C] (3)</b>
DEUTSCHE ÖLWERKE LUBMIN	AVENO GEAR ULTIMATE FLD 150	-54
EXXONMOBIL	MOBIL SHC GEAR 150	-54
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-150N	-40
NILS S.P.A.	ATOIL SYNT MP 150	-48
PETRO CANADA	ENDURATEX SYNTHETIC EP 150	-54
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 150	-54
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 150	-54
RAVENSBERGER SCHMIERSTOFFVERTRIEB	RAVENOL SYNTHETIC WIND TURBINES SWT 150	-54
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 150	-51
SINOPEC LUBRICANT CO., LTD.	AP-S INDUSTRIAL GEAR OIL 150	-51
YORK SAS	YORK 897 150	-51

**Lubricant class 27E**

Lubricant CLP mineral oil

Viscosity class: ISO VG 220

**Manufacturer (27E)**

EXXONMOBIL  
NILS S.P.A.  
OLMA d.o.o.  
PETROCHINA LUBRICANT COMPANY  
SHELL  
SINOPEC LUBRICANT CO., LTD.  
YORK SAS

**Trade name (27E)**

MOBILGEAR 600 XP 220  
ATOIL MP 220  
OLMAREDOL FL 220  
KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 220  
OMALA S2 GX 220  
AP INDUSTRIAL GEAR OIL 220  
YORK RE 5000 220

**Pour point [°C] (3)**

-24  
-21  
-12  
-21  
-18  
-20  
-21

**Lubricant class 27F**

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 220

<b>Manufacturer (27F)</b>	<b>Trade name (27F)</b>	<b>Pour point [°C] (3)</b>
CHAMPION CHEMICALS N.V.	CHAMPION EP GEAR SYN PAO 220	-42
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 220	-36
DEUTSCHE ÖLWERKE LUBMIN	AVENO GEAR ULTIMATE FLD 220	-51
EXXONMOBIL	MOBIL SHC GEAR 220	-45
GULF OIL INTERNATIONAL LTD	GULF GEARTEK SHD 220	-36
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-220 N	-40
NILS S.P.A.	ATOIL SYNT MP 220	-45
PETRO CANADA	ENDURATEX SYNTHETIC EP 220	-51
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 220	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 220	-48
RAVENSBERGER SCHMIERSTOFFVERTRIEB	RAVENOL SYNTHETIC WIND TURBINES SWT 220	-51
SAVITA OIL TECHNOLOGIES LTD	SAVSOL SYNTH GEAR 220	-42
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 220	-48
SHELL	OMALA S4 GXV 220	-42
SINOPEC LUBRICANT CO., LTD.	AP-S INDUSTRIAL GEAR OIL 220	-48
WOLF OIL CORPORATION N.V.	WOLF AROWEP SYN PAO 220	-42
YORK SAS	YORK 897 220	-48

**Lubricant class 27G**  
Lubricant CLP mineral oil  
Viscosity class: ISO VG 320

Manufacturer (27G)	Trade name (27G)	Pour point [°C] (3)
EXXONMOBIL	MOBILGEAR 600 XP 320	-24
OLMA d.o.o.	OLMAREDOL FL 320	-13
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 320	-15
SHELL	OMALA S2 GX 320	-15
SINOPEC LUBRICANT CO., LTD.	AP INDUSTRIAL GEAR OIL 320	-17



**Lubricant class 27H**

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 320

<b>Manufacturer (27H)</b>	<b>Trade name (27H)</b>	<b>Pour point [°C] (3)</b>
CHAMPION CHEMICALS N.V.	CHAMPION EP GEAR SYN PAO 320	-45
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 320	-36
DEUTSCHE ÖLWERKE LUBMIN	AVENO GEAR ULTIMATE FLD 320	-48
EXXONMOBIL	MOBIL SHC GEAR 320	-48
GULF OIL INTERNATIONAL LTD	GULF GEARTEK SHD 320	-39
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-320 N	-35
NILS S.P.A.	ATOIL SYNT MP 320	-42
PETRO CANADA	ENDURATEX SYNTHETIC EP 320	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 320	-45
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 320	-45
RAVENSBERGER SCHMIERSTOFFVERTRIEB	RAVENOL SYNTHETIC WIND TURBINES SWT 320	-48
SAVITA OIL TECHNOLOGIES LTD	SAVSOL SYNTH GEAR 320	-42
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 320	-45
SHELL	OMALA S4 GXV 320	-42
SINOPEC LUBRICANT CO., LTD.	AP-S INDUSTRIAL GEAR OIL 320	-42
WOLF OIL CORPORATION N.V.	WOLF AROWEP SYN PAO 320	-45
YORK SAS	YORK 897 320	-45

**Lubricant class 27I**  
Lubricant CLP mineral oil  
Viscosity class: ISO VG 460

Manufacturer (27I)	Trade name (27I)	Pour point [°C] (3)
EXXONMOBIL	MOBILGEAR 600 XP 460	-15
OLMA d.o.o.	OLMAREDOL FL 460	-13
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM HEAVY-DUTY INDUSTRIAL GEAR OIL 460	-15
SHELL	OMALA S2 GX 460	-12
SINOPEC LUBRICANT CO., LTD.	AP INDUSTRIAL GEAR OIL 460	-11

**Lubricant class 27J**

Lubricant CLP poly-alpha-olefin oils or partially synthetic

Viscosity class: ISO VG 460

<b>Manufacturer (27J)</b>	<b>Trade name (27J)</b>	<b>Pour point [°C] (3)</b>
CHEVRON (CALTEX-CHEVRON-TEXACO)	MEROPA ELITESYN XM 460	-36
DEUTSCHE ÖLWERKE LUBMIN	AVENO GEAR ULTIMATE FLD 460	-45
EXXONMOBIL	MOBIL SHC GEAR 460	-48
GULF OIL INTERNATIONAL LTD	GULF GEARTEK SHD 460	-39
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-460 N	-30
PETRO CANADA	ENDURATEX SYNTHETIC EP 460	-45
PETROCHINA LUBRICANT COMPANY	KUNLUN FD3000N-B GEAR OIL 460	-48
PETROCHINA LUBRICANT COMPANY	KUNLUN KPM/S SYNTHETIC HEAVY-DUTY INDUSTRIAL GEAR OIL 460	-48
RAVENSBERGER SCHMIERSTOFFVERTRIEB	RAVENOL SYNTHETIC WIND TURBINES SWT 460	-45
SAVITA OIL TECHNOLOGIES LTD	SAVSOL SYNTH GEAR 460	-42
SHANXI LU'AN TAIHANG LUBRICATING TECHNOLOGY CO., LTD.	TAIHANG GEAR WT 460	-42
SHELL	OMALA S4 GXV 460	-42
SINOPEC LUBRICANT CO., LTD.	AP-S INDUSTRIAL GEAR OIL 460	-42