



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	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 01.07.2020 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)	Trade name (27A)	Pour point [°C] (3)
ADDINOL	ECO GEAR 100 M	-30
EXXONMOBIL	MOBILGEAR 600 XP 100	-24
FUCHS PETROLUB	RENOLIN CLP PLUS 100	-24
KLÜBER LUBRICATION	KLÜBEROIL GEM 1-100 N	-15
TOTAL	CARTER EP 100	-21

Lubricant class 27B

Lubricant CLP poly-alpha-olefin oils

Viscosity class: ISO VG 100

Manufacturer (27B)FUCHS PETROLUB
KLÜBER LUBRICATION**Trade name (27B)**RENOLIN UNISYN CLP 100
KLÜBERSYNTH GEM 4-100 N**Pour point [°C] (3)**-53
-40

Lubricant class 27C

Lubricant CLP mineral oil

Viscosity class: ISO VG 150

Manufacturer (27C)	Trade name (27C)	Pour point [°C] (3)
ADDINOL	ECO GEAR 150 M	-27
EXXONMOBIL	MOBILGEAR 600 XP 150	-24
FUCHS PETROLUB	RENOLIN CLP PLUS 150	-24
KLÜBER LUBRICATION	KLÜBEROIL GEM 1-150N	-10
MOTOREX	GEAR COMPOUND PLUS 150	-24
SHELL	OMALA S2 GX 150	-24
TOTAL	CARTER EP 150	-21

Lubricant class 27D

Lubricant CLP poly-alpha-olefin oils

Viscosity class: ISO VG 150

Manufacturer (27D)	Trade name (27D)	Pour point [°C] (3)
EXXONMOBIL	MOBIL SHC GEAR 150	-45
FUCHS PETROLUB	RENOLIN UNISYN CLP 150	-45
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-150N	-40
MOTOREX	GEAR SINTEC CLP 150	-57
SHELL	OMALA S4 GX 150	-45
TOTAL	CARTER SH 150	-48

Lubricant class 27E

Lubricant CLP mineral oil

Viscosity class: ISO VG 220

Manufacturer (27E)	Trade name (27E)	Pour point [°C] (3)
ADDINOL	ECO GEAR 220 M	-21
EXXONMOBIL	MOBILGEAR 600 XP 220	-18
FUCHS PETROLUB	RENOLIN CLP PLUS 220	-24
KLÜBER LUBRICATION	KLÜBEROIL GEM 1-220 N	-10
MOTOREX	GEAR COMPUND PLUS 220	-24
SHELL	OMALA S2 GX 220	-18
TOTAL	CARTER EP 220	-21

Lubricant class 27F

Lubricant CLP poly-alpha-olefin oils

Viscosity class: ISO VG 220

Manufacturer (27F)	Trade name (27F)	Pour point [°C] (3)
ADDINOL	ECO GEAR S 220	-42
EXXONMOBIL	MOBIL SHC GEAR 220	-39
FUCHS PETROLUB	RENOLIN UNISYN CLP 220	-42
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-220 N	-40
MOTOREX	GEAR SINTEC CLP 220	-45
SHELL	OMALA S4 GX 220	-42
TOTAL	CARTER SH 220	-45

Lubricant class 27G

Lubricant CLP mineral oil

Viscosity class: ISO VG 320

Manufacturer (27G)	Trade name (27G)	Pour point [°C] (3)
ADDINOL	ECO GEAR 320 M	-15
EXXONMOBIL	MOBILGEAR 600 XP 320	-15
FUCHS PETROLUB	RENOLIN CLP PLUS 320	-18
KLÜBER LUBRICATION	KLÜBEROIL GEM 1-320 N	-10
MOTOREX	GEAR COMPOUND PLUS 320	-24
SHELL	OMALA S2 GX 320	-15
TOTAL	CARTER EP 320	-15

Lubricant class 27H

Lubricant CLP poly-alpha-olefin oils

Viscosity class: ISO VG 320

Manufacturer (27H)	Trade name (27H)	Pour point [°C] (3)
ADDINOL	ECO GEAR S 320	-43
EXXONMOBIL	MOBIL SHC GEAR 320	-33
FUCHS PETROLUB	RENOLIN UNISYN CLP 320	-42
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-320 N	-35
SHELL	OMALA S4 GX 320	-42
TOTAL	CARTER SH 320	-42

Lubricant class 27I

Lubricant CLP mineral oil

Viscosity class: ISO VG 460

Manufacturer (27I)	Trade name (27I)	Pour point [°C] (3)
ADDINOL	ECO GEAR 460 M	-15
EXXONMOBIL	MOBILGEAR 600 XP 460	-15
FUCHS PETROLUB	RENOLIN CLP PLUS 460	-14
KLÜBER LUBRICATION	KLÜBEROIL GEM 1-460 N	-10
SHELL	OMALA S2 GX 460	-12
TOTAL	CARTER EP 460	-12

Lubricant class 27J

Lubricant CLP poly-alpha-olefin oils

Viscosity class: ISO VG 460

Manufacturer (27J)	Trade name (27J)	Pour point [°C] (3)
ADDINOL	ECO GEAR S 460	-40
EXXONMOBIL	MOBIL SHC GEAR 460	-27
FUCHS PETROLUB	RENOLIN UNISYN CLP 460	-39
KLÜBER LUBRICATION	KLÜBERSYNTH GEM 4-460 N	-30
SHELL	OMALA S4 GX 460	-42
TOTAL	CARTER SH 460	-42