SEW EURODRIVE

Revision



Gear Unit Series R..7, F..7, K..7, K..9, S..7, SPIROPLAN® W

Edition 09/2019

29151457/EN



1 Revision

INFORMATION

This revision sheet provides updates to the assembly and operating instructions for the "R..7, F..7, K..7, K..9, S..7, SPIROPLAN® W Gear Unit Series". The following chapters were updated:

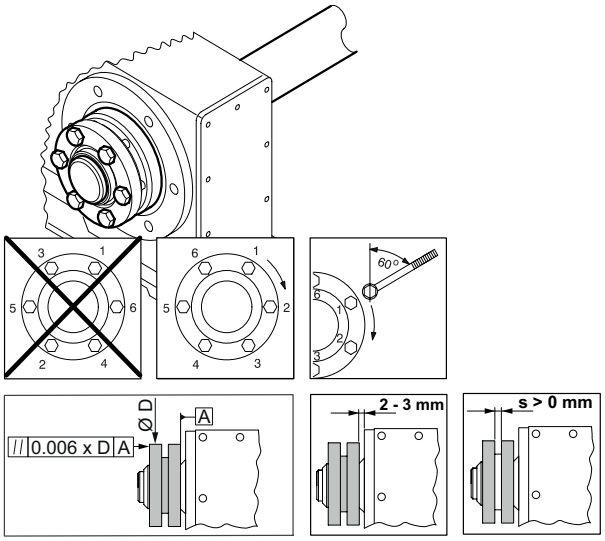
- Chapter 4.7.1 "Mounting the shaft-mounted gear unit", Step 4 – Installing the input shaft in a gear unit without a shaft shoulder. New distance of the shrink disk from the gear unit housing: 2 – 3 mm.
- Chapter 8.2.2 "Lubricants", Lubricant table (017511**7**04)

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1.1 Installing the shaft-mounted gear unit (with shrink disk)

4. Install the shaft. Make sure that the outer rings of the shrink disk are installed in parallel to each other.

- Make sure that the outer rings of the shrink disk are plane-parallel.
- If you have a gear unit with a shaft shoulder, fit the shrink disk onto the shaft shoulder as far as the stop. However, the outer ring of the shrink disk facing the gear unit must have a minimum distance of no less than 2 mm from the gear unit housing.
- In the case of a gear unit without a shaft shoulder, mount the shrink disk at a **distance of 2 – 3 mm** from the gear unit housing.
- Tighten the locking bolts by working round several times from one bolt to the next (not in diametrically opposite sequence). The tightening torques are given in the table below. After mounting, grease the outer surface of the hollow shaft in the area of the shrink disk to provide corrosion protection.



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1.2 Lubricant table (01751 17 04)

NOTICE

Damage to the gear unit due to improper lubricants.

Possible damage to property.

- The oil viscosity and type (mineral/synthetic) to be used are determined by SEW-EURODRIVE specifically for each order. This information is noted in the order confirmation and on the gear unit's nameplate. If you use other lubricants for the gear units and/or use the lubricants at temperatures outside the recommended temperature range, SEW-EURODRIVE does not assume liability.
- The lubricant recommendation in the lubricant table in no way represents a guarantee regarding the quality of the lubricant delivered by each respective supplier. Each lubricant manufacturer is responsible for the quality of their product.
- Do not mix synthetic lubricants.
- Do not mix synthetic lubricants and mineral lubricants.
- Oils of the same viscosity class from different manufacturers do not have the same characteristics. In particular, the minimally and maximally permitted oil bath temperatures are manufacturer-specific. These temperatures are specified in the lubricant tables.
- The values specified in the lubricant tables apply as of the time of printing of this document. The data of the lubricants is subject to dynamic change on the part of the lubricant manufacturers. For the latest information about the lubricants, visit: **www.sew-eurodrive.de/lubricants**.

1.2.1 Key

The following table shows the abbreviations and symbols used in the lubricant table and explains what they mean:

Abbreviation/symbol	Meaning
	Synthetic lubricant (marked gray)
	Mineral lubricant
CLP	Mineral oil
CLP PG	Polyglycol (PG)
CLP HC	Synthetic hydrocarbons – polyalphaolefin (PAO)
E	Ester-based oil
	Lubricant for the food processing industry and feed industry. Oils are NSF-H1 registered and compliant according to FDA 21 CFR § 178.3570
	Easily biodegradable oil for environmentally sensitive areas
	Lubricant suitable for ATEX environment.
1)	Helical-worm gear units with CLP-PG: Contact SEW-EURODRIVE

Abbreviation/symbol	Meaning
2)	Low-viscosity grease
3)	With appropriate measures, the gear units can be operated at ambient temperatures as low as -40 °C. Contact SEW-EURODRIVE.
RWDR	Oil seal
PSS	Oil seal type Premium Sine Seal (PSS). The addendum "PSS" for the lubricant type indicates compatibility with the sealing system.

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1.2.2 Lubricant table for R.., F.., and K..7 gear units

The lubricant table is valid on the day this document is published. Refer to **www.sew-eurodrive.de/lubricants** for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

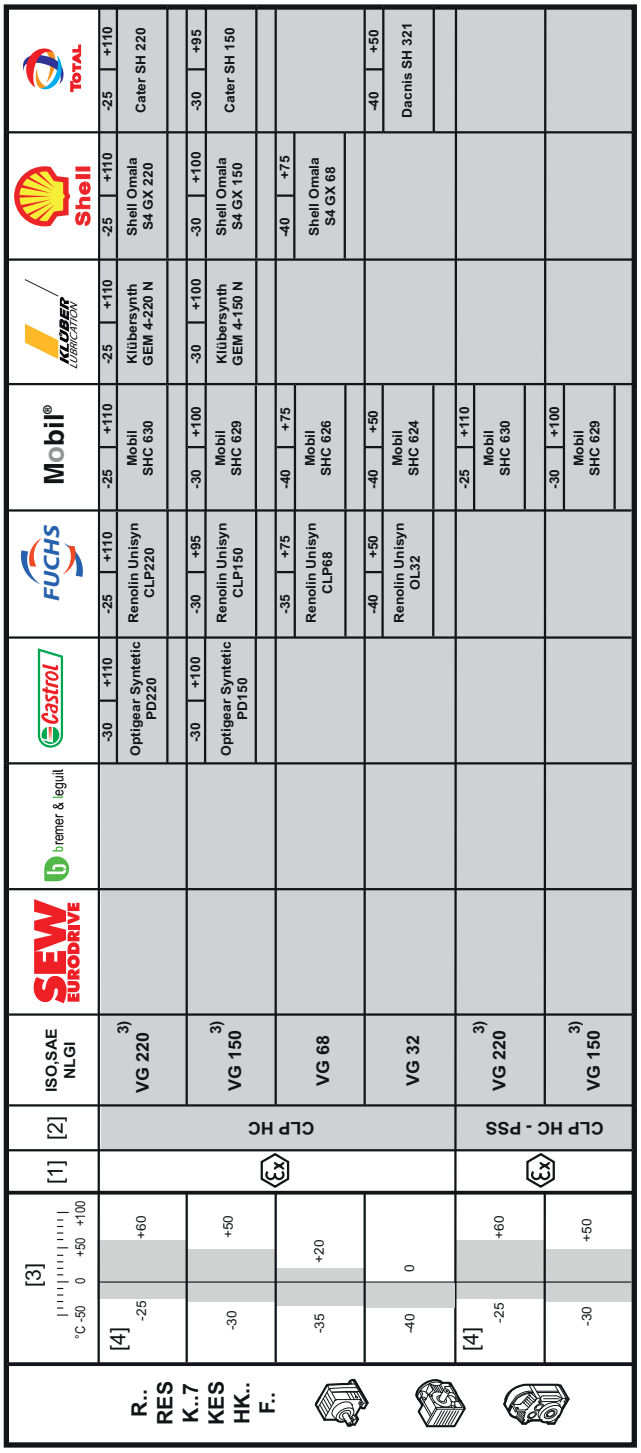


R.. RES K..7 KES HK.. F..	[3] °C -50 0 +50 +100	[1]	[2]	ISO,SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil®	KLÜBER LUBRICATION	Shell	TOTAL
	[4]				-15 +80		-15 +80	-15 +80	-15 +80	-15 +80	-15 +80	-15 +80
	-15		CLP	VG 220	SEW GearOil Base 220 E[1]		Optigear BM 220	Renolin CLP220 Plus	Mobilgear 600 XP 220	Klüberoil GEM 1-220 N	Shell Omala S2 G 220	Cater EP 220
					SEW07004001 3			SEW07004001 3	SEW07004001 3			
	-20			VG 150	-20 +80 SEW GearOil Base 150 E[1]		-20 +80 Optigear BM 150	-20 +80 Renolin CLP150 Plus	-20 +80 Mobilgear 600 XP 150	-20 +80 Klüberoil GEM 1-150 N	-20 +80 Shell Omala S2 G 150	-20 +80 Cater EP 150
					SEW07004001 3			SEW07004001 3	SEW07004001 3			
	-25	Ex	CLP PG	VG 220	-25 +115 SEW GearOil Poly 220 E[1]		-25 +115 Optigear Synthetic 800/220	-25 +115 Renolin PG220	-25 +115 Mobil GLyoyle 220	-25 +115 Klübersyth GH 6-220	-25 +115 Shell Omala S4 WE 220	-25 +115 Cater SY 220
					SEW07004001 3							
	-25	Ex	CLP PG PSS	VG 220	-25 +115 SEW GearOil Poly 150 E[1]					-25 +115 Klübersyth GH 6-220		
					SEW07004001 3							

[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

The lubricant table is valid on the day this document is published. Refer to **www.sew-eurodrive.de/lubricants** for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

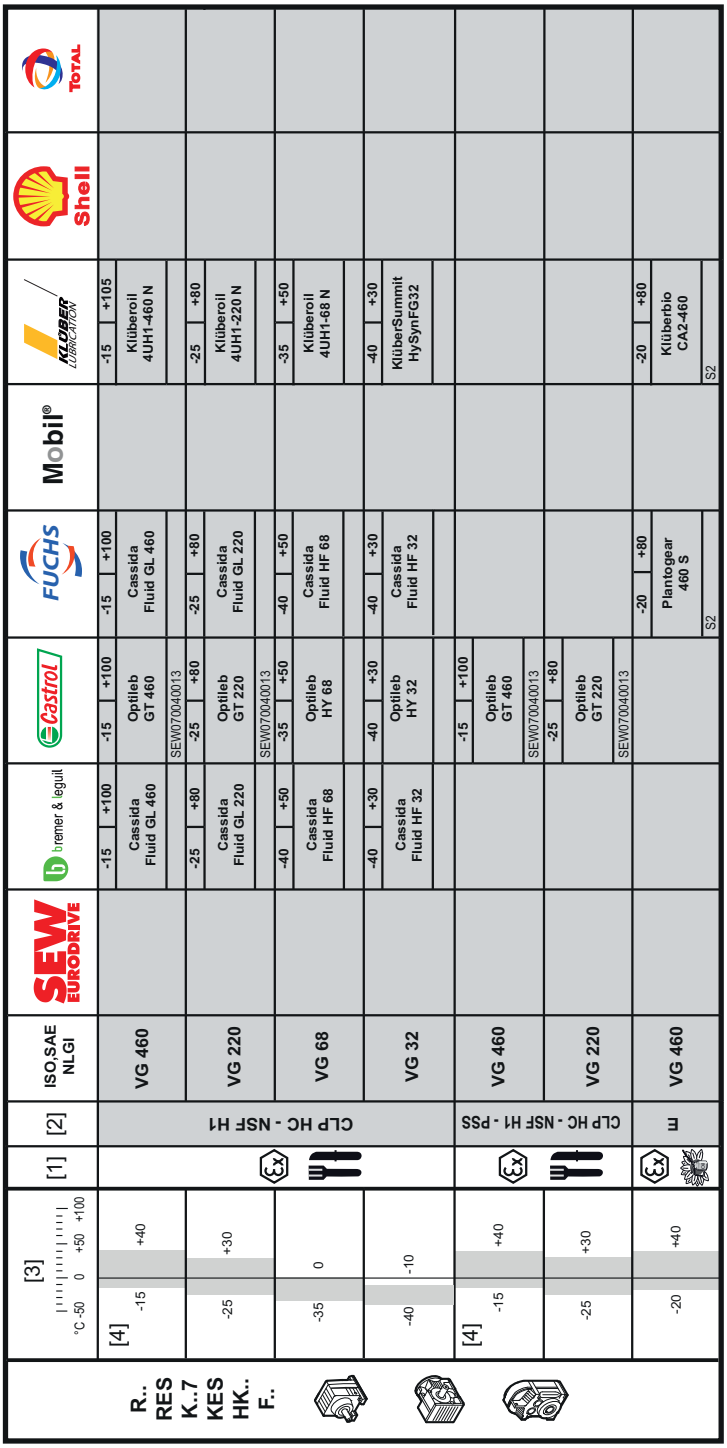


[1] Note on special approvals
[2] Oil type
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[4] Standard

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Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

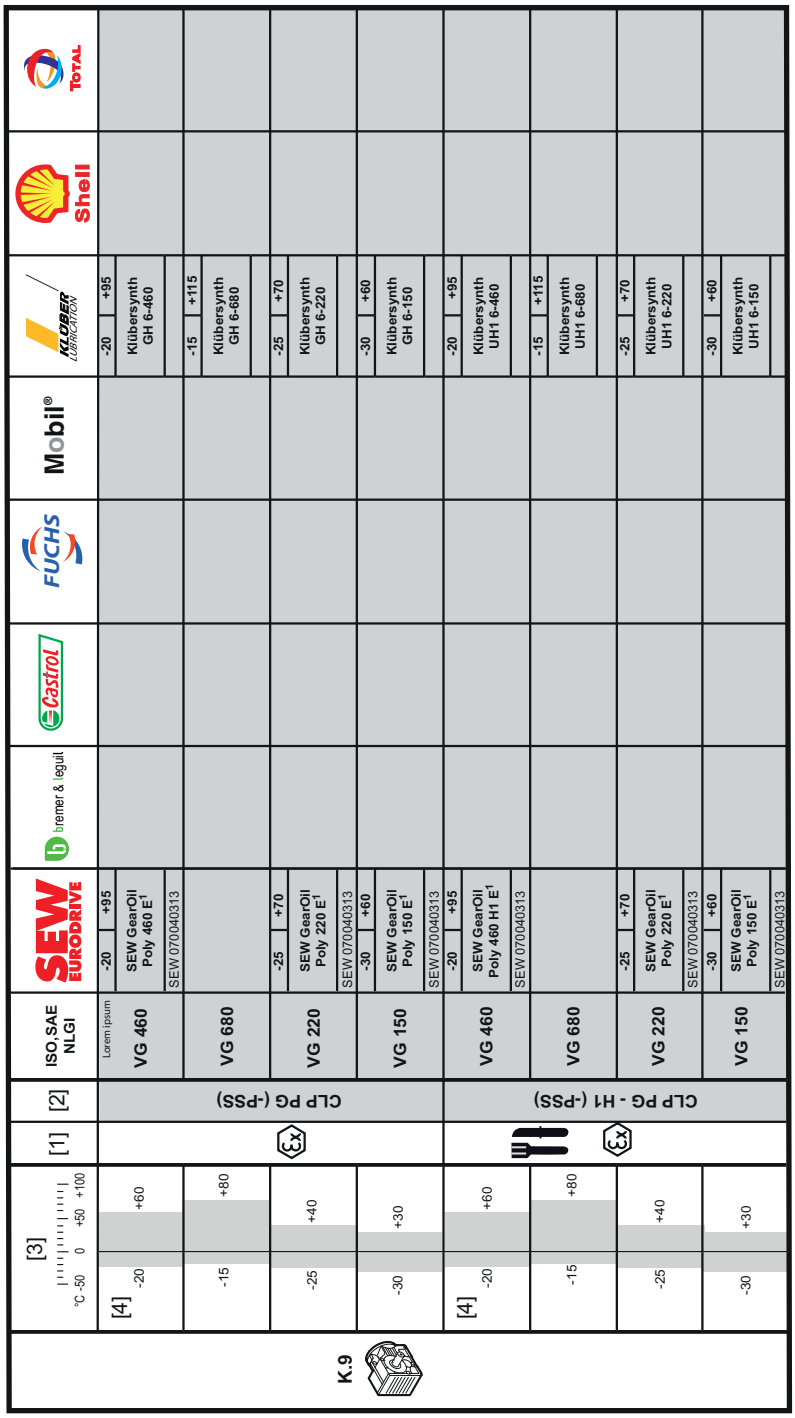


[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

1.2.3 Lubricant table for K..9 gear units

The lubricant table is valid on the day this document is published. Refer to **www.sew-eurodrive.de/lubricants** for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.



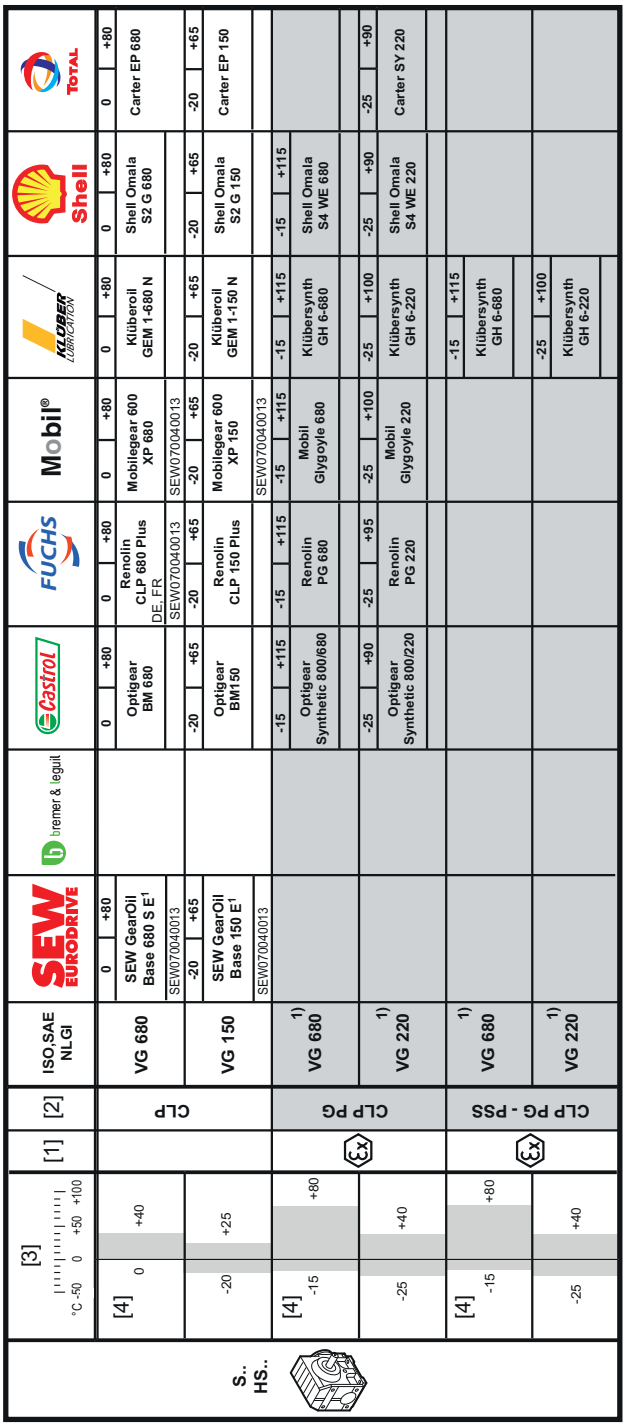
[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

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1.2.4 Lubricant table for S.. gear units

The lubricant table is valid on the day this document is published. Refer to **www.sew-eurodrive.de/lubricants** for the latest tables.

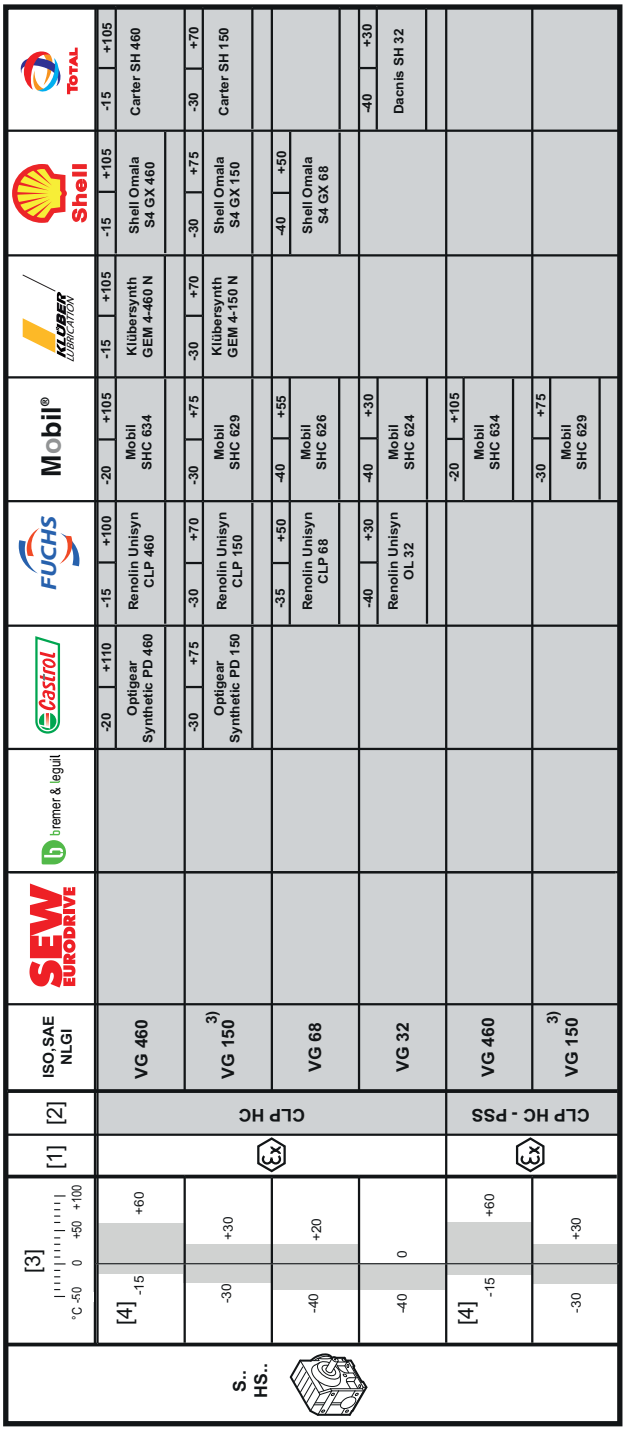
Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.



[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

The lubricant table is valid on the day this document is published. Refer to **www.sew-eurodrive.de/lubricants** for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

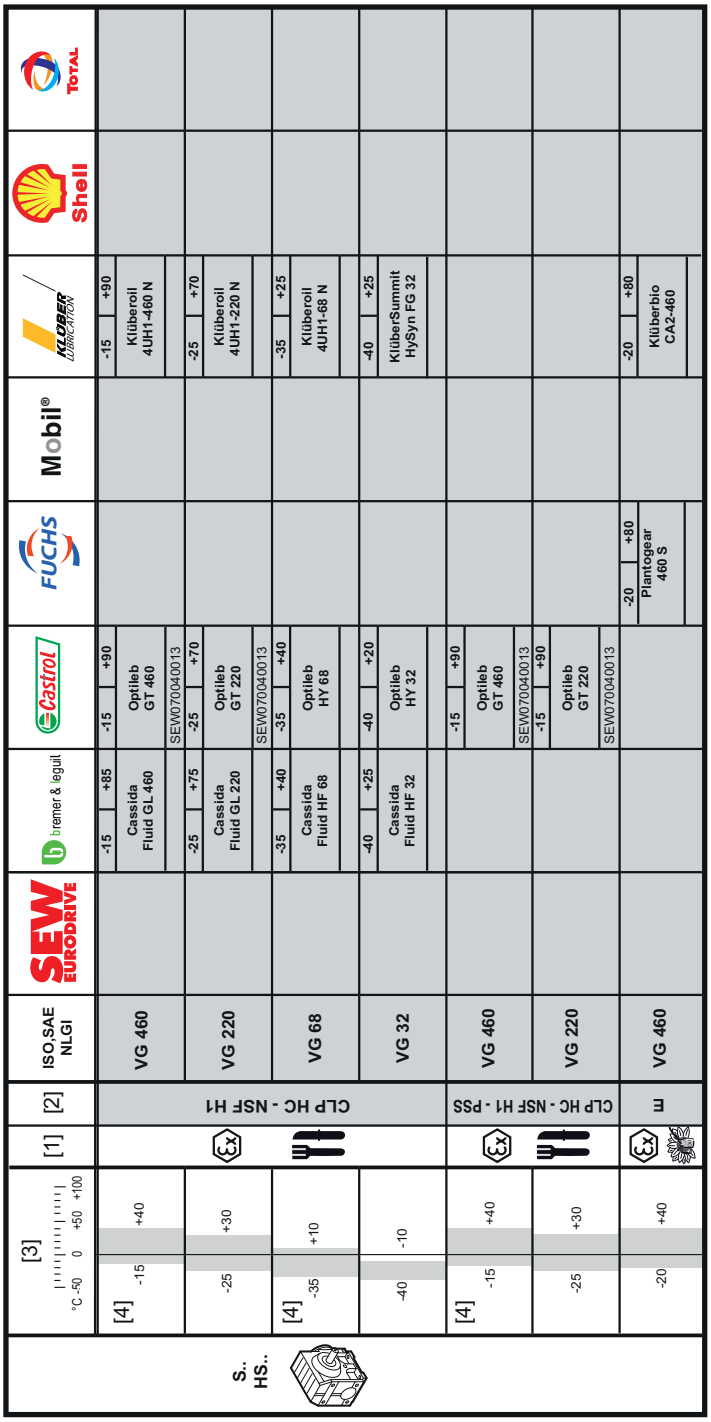


[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

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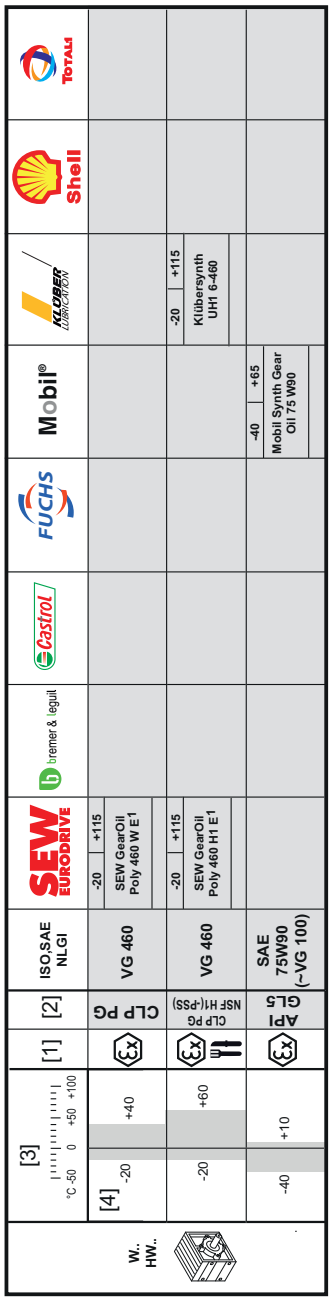
S.. HS..	[3] °C -40 0 +50 +100	[1]	[2]	ISO,SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil®	KLÜBER LUBRICATION	Shell	TOTAL
	[4] -15 … +40	Ex	CLP HC - NSF H1	VG 460		-15 … +85 Cassida Fluid GL 460	-15 … +90 Optileb GT 460			-15 … +90 Klüberoil 4UH1-460 N		
	-25 … +30			VG 220		-25 … +75 Cassida Fluid GL 220	-25 … +70 Optileb GT 220			-25 … +70 Klüberoil 4UH1-220 N		
	[4] -35 … +10			VG 68		-35 … +40 Cassida Fluid HF 68	SEW070040013 -35 … +40 Optileb HY 68			-35 … +25 Klüberoil 4UH1-68 N		
	-40 … -10			VG 32		-40 … +25 Cassida Fluid HF 32	-40 … +20 Optileb HY 32			-40 … +25 KlüberSummit HySyn FG 32		
	[4] -15 … +40	Ex	CLP HC - NSF H1 - PSS	VG 460		-15 … +90 Optileb GT 460	SEW070040013 -15 … +90 Optileb GT 460					
	-25 … +30			VG 220		-15 … +90 Optileb GT 220	SEW070040013 -15 … +90 Optileb GT 220					
	-20 … +40	Ex	E	VG 460				-20 … +80 Plantogear 460 S		-20 … +80 Klüberbio CA2-460		

[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

1.2.5 Lubricant table for W.. gear units

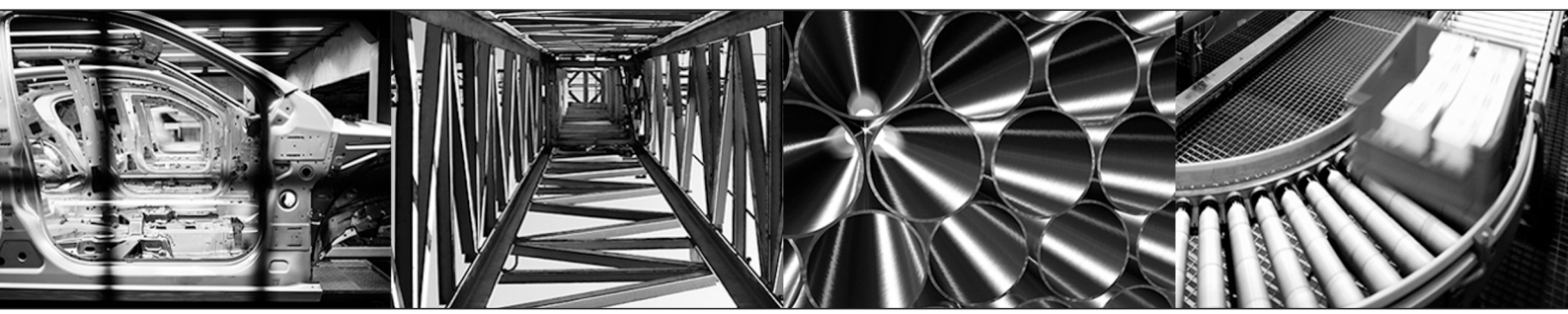
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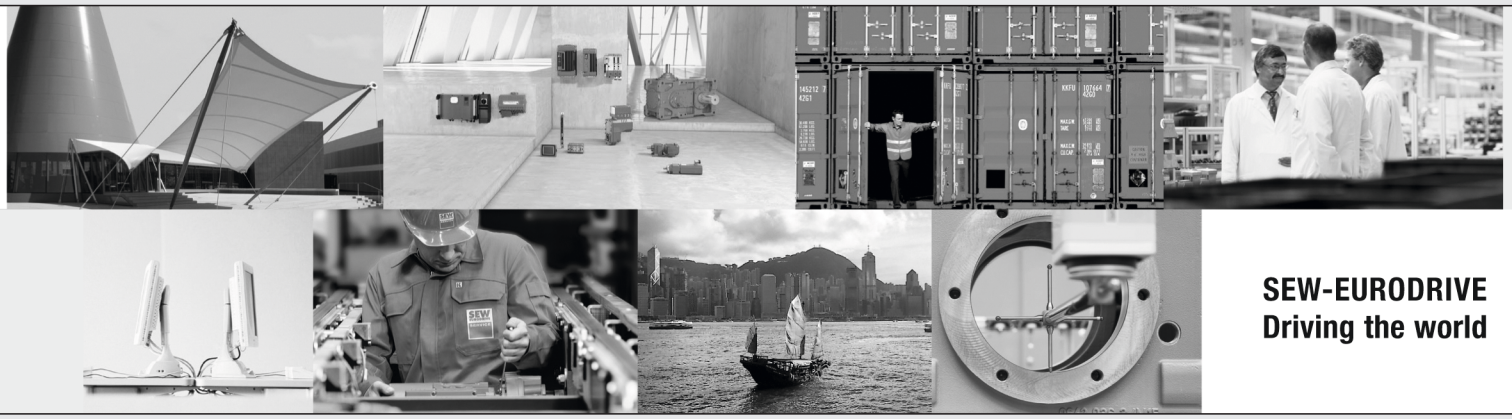
Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.



[1] Note on special approvals
[2] Oil type
[3] Ambient temperature range
[4] Standard

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