

Supplier Approval

01 751 28 04
63085461.28



SEW drives of the series

R../K.7/ F../K.9/ S../HS../ W.0/ HW.0/ W.9HG/ W.9/ PxG/ PS.F/ PS.C/ BS.F/ MGF/ G.7

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Change information:

Chap. /page	Description (changes to the previous edition)	Modification no.
2 /7-4 /14	Shell Omala SG 150-220-680 withdrawn.	240011
2 /8	GearFluid Poly 220 H1 E1 upper ambient temperature from 80°C to 40°C.	
2.1 /11	Chapter "Other approved lubricants" supplemented: - Approval granted for lubricant "Chevron / Texaco / Caltex Meropa EliteSyn XM 150 to 680". - Approval granted for lubricant "Hindustan Petroleum Corporation Limited Parthan SL 220 to 460". - Approval granted for lubricant "Klüber Lubrication Klübersynth MEG 4-150 to 680". - Approval granted for lubricant "Shell S4 GXV Plus 150 to 680".	
6 /20	Gear unit series W.9HG added / same lubricant group as W.0 series.	
7 /21	Logo lubricant for the food processing industry and feed industry added to W.9 CLP PG H1 (PSS).	

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1. Introduction/area of application

This document describes the approved/recommended lubricants for SEW gear unit series. The approvals/recommendations are worldwide valid.

If other lubricants are used in the gear units and/or lubricants are used with other temperature ranges than the ones recommended, the right to claim under warranty will become invalid.

Lubricants for standard gear units are subject to approval, the approval will be made according to the document 07004__13 "Supplier approval for qualification and approval of lubricants – gear unit oils" in its current version.

NOTE: Printed documents may not include the latest changes. For the latest version of this document, refer to <https://www.sew-eurodrive.de/lubricants>.

1.1. Explanations of the structure of the tables and abbreviations

Gear unit type		Ambient temperature range		Note on special approvals		Viscosity class						
Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bromer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	SINOPEC	TOTAL
 R.. RES K.7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15 +80 GearOil Base 220 EI/US1		-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220 Plus	-15 +80 Mobilgear 600 XP 220	-15 +80 Klüberoil GEM 1-220 N	-15 +80 Shell Omala SG 220	-15 +80 AP-SGO 220	-15 +80 Carter EP 220
				SEW 070040313			SEW 070040313	SEW 070040013				
	-20 30			-20 +80 GearOil Base 150 EI/US1*		-20 +80 Optigear BM 150	-20 +80 Renolin CLP 150 Plus	-20 +80 Mobilgear 600 XP 150	-20 +80 Klüberoil GEM 1-150 N	-20 +80 Shell Omala SG 150	-20 +80 AP-SGO 150	-20 +80 Carter EP 150
				SEW 070040313			SEW 070040313	SEW 070040013				
 R.. RES K.7 KES HK.. F..	Standard -15 40	CLP - PSS	VG 220	-15 +80 GearOil Base 220 EI/US1			-15 +80 Renolin CLP 220 Plus	-15 +80 Mobilgear 600 XP 220				
				SEW 070040313			SEW 070040313	SEW 070040013				
	-20 30			-20 +80 GearOil Base 150 EI/US1*			-20 +80 Renolin CLP 150 Plus	-20 +80 Mobilgear 600 XP 150				
				SEW 070040313			SEW 070040313	SEW 070040013				

The specified **ambient (environment) temperatures** are **rough guide values for a preselection** of a suitable lubricant. The exact upper and lower temperature limit for the project planning must be taken from the table with the corresponding trade name! Please note during project planning that the starting behavior may change with low temperatures due to the increasing viscosity.

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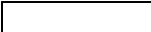
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Abbreviations:

	Synthetic lubricant.
	Mineral lubricant.
CLP	Mineral oil.
CLP PG	Polyglycol (PG).
rPCF	reduced Product Carbon Footprint
CLP HC	Synthetic hydrocarbons – polyalphaolefins (PAO).
E	Oil based on esters.
	Lubricant suitable for ATEX environment.
	Lubricant for the food processing industry and feed industry. Oils are NSF H1 registered and compliant according to FDA 21 CFR § 178.3570.
	Lubricants with slight bio-degradability for environmentally sensitive areas (> 60% according to OECD 301 or according to appendix A of EPA 2013 VGP).
	Lubricants with particularly reduced CO ₂ footprint (cradle-to-gate) made of sustainable raw materials.
1)	Helical-worm gear units with CLP-PG: contact SEW-EURODRIVE.
2)	Low-viscosity grease.
3)	Ambient temperatures up to -40 °C can be implemented with appropriate measures. Please contact SEW-EURODRIVE.
4)	Oils for the food processing industry cannot be combined with the gear unit option "Extended storage" (a VCI anti-corrosion agent is added).
RWDR	Radial oil seal.
PSS	Radial oil seal type PSS (Premium Sine Seal). The addendum "PSS" at the lubricant type signals compatibility with the sealing system.

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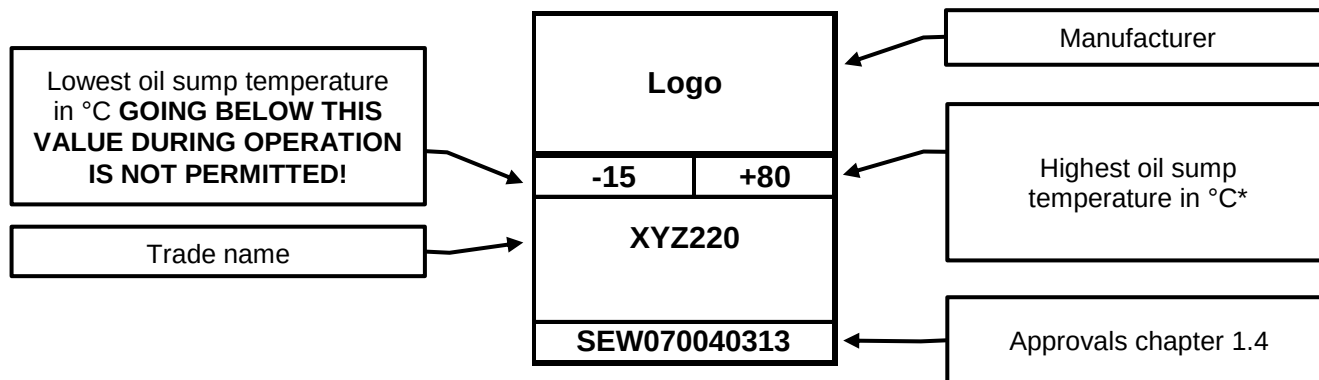
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1.2. Explanations on the individual lubricants

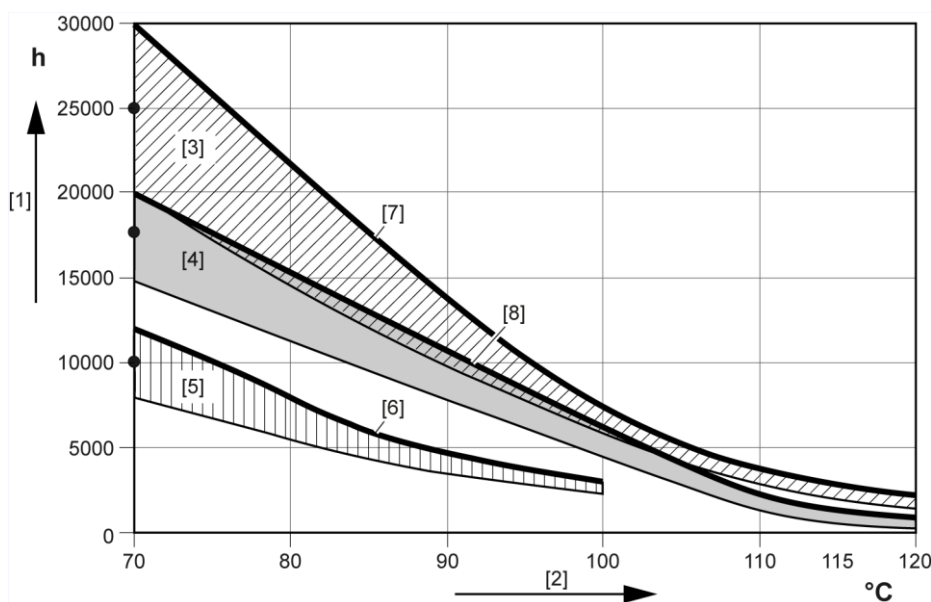


* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

1.3. Lubricant change intervals

The following image depicts the change intervals for standard gear units under normal ambient conditions. In case of special designs under severe/aggressive ambient conditions, change the lubricant more frequently.

Notice: Filling of wrong lubricant may lead to a loss of the lubricant properties and thus damage the gear unit. Do not mix synthetic lubricants and mineral lubricants. In general, the guideline FVA 606 must be adhered to.



- [1] Operating hours
- [2] Sustained oil bath temperature
- [3] CLP PG/CLP PG NSF H1
- [4] CLP HC/CLP HC NSF H1
- [5] CLP / E

- [6] GearOil Base by SEW-EURODRIVE
- [7] GearOil Poly (H1) / GearFluid Poly (H1) by SEW-EURODRIVE
- [8] GearOil Synth (H1) by SEW-EURODRIVE

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1.4. Compatibility of lubricants with radial oil seals

SEW07004_13: A lubricant especially recommended by SEW-EURODRIVE, also in regard of compatibility with the approved oil seals. The lubricant exceeds the state-of-the-art requirements.

Approved application temperature range of the oil seals

Oil seal material class	Approved oil sump temperature
NBR	-40 °C ... +80 °C
FKM	-25 °C ... +115 °C
FKM-PSS	-25 °C ... +115 °C

In the low temperature range, oil seals can withstand shaft deflections (e. g. through overhung load) only to a limited extent. Especially avoid or limit pulsating or changing radial displacements of the shaft. Please contact SEW-EURODRIVE if required.

Limitations of use of radial oil seals with the specific lubricant are indicated in the following table:

Material class		Manufacturer		Material		
S	1	NBR	1	Freudenberg	72 NBR 902	
			2	Trelleborg	4NV11	
	2	FKM	1	Freudenberg	1	75 FKM 585
			2		2	75 FKM 170055
			2	Trelleborg	1	VCBVR
			3	SKF	1	FKM 00934

Example 1:

S11 - Only the elastomer Freudenberg 72 NBR 902 meets the requirements of the SEW-EURODRIVE approval in regard of the specific lubricant.

Example 2:

S2 - Only the elastomer FKM meets the requirements of the SEW-EURODRIVE approval in regard of the specific lubricant.

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2. Helical gear units (R..), helical-bevel gear units (K.7), parallel-shaft helical gear units (F..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	SINOPEC	TotalEnergies
 R.. RES K..7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15 +80 GearOil Base 220 E1/US1/CN1/BR1 SEW 070040313	-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220 Plus SEW 070040313	-15 +80 Mobilgear 600 XP 220 SEW 070040013	-15 +80 Klüberoil GEM 1-220 N	-15 +80 AP-SGO 220 SEW 070040313	-15 +80 Carter EP 220
	-20 30			-20 +80 GearOil Base 150 E1/US1/CN1/BR1 SEW 070040313	-20 +80 Optigear BM 150	-20 +80 Renolin CLP 150 Plus SEW 070040313	-20 +80 Mobilgear 600 XP 150 SEW 070040013	-20 +80 Klüberoil GEM 1-150 N	-20 +80 AP-SGO 150 SEW 070040313	-20 +80 Carter EP 150
	Standard -15 40			-15 +80 GearOil Base 220 E1/US1/CN1/BR1 SEW 070040313		-15 +80 Renolin CLP 220 Plus SEW 070040313	-15 +80 Mobilgear 600 XP 220 SEW 070040013		-15 +80 AP-SGO 220 SEW 070040313	
	-20 30			-20 +80 GearOil Base 150 E1/US1/CN1/BR1 SEW 070040313		-20 +80 Renolin CLP 150 Plus SEW 070040313	-20 +80 Mobilgear 600 XP 150 SEW 070040013		-20 +80 AP-SGO 150 SEW 070040313	
		CLP (PSS)	VG 220							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TotalEnergies
 R.. RES K..7 KES HK.. F..  	Standard -25 80	CLP PG	VG 220	-25 +115 GearOil Poly 220 E1 SEW 070040313	-25 +115 Optigear Synthetic 800/220	-25 +115 Renolin PG 220	-25 +115 Mobil Glygoyle 220	-25 +115 Klübersynth GH 6-220	-25 +115 Shell Omala S4 WE 220	-25 +115 Carter SY 220
	-30 70			-30 +115 GearOil Poly 150 E1 SEW 070040313				-30 +115 Klübersynth GH 6-150		
	Standard -25 80			-25 +115 GearOil Poly 220 E1 SEW 070040313				-25 +115 Klübersynth GH 6-220		
	-30 70	CLP PG (PSS)	VG 150	-30 +115 GearOil Poly 150 E1 SEW 070040313				-30 +115 Klübersynth GH 6-150		
	Standard -25 80			-25 +115 GearFluid Poly 220 E1 SEW 070040313						
	-30 70			-30 +115 GearOil Poly 150 E1 SEW 070040313				-30 +115 Klübersynth UH1 6-220		
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS)	VG 220	-20 +115 GearOil Poly 460 H1 E1 SEW 070040313				-20 +115 Klübersynth UH1 6-460		
	-20 80			-30 +80 GearOil Poly 150 H1 E1 SEW 070040313				-30 +80 Klübersynth UH1 6-150		
	-30 30			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-25 80			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-30 30			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS)	VG 150	-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-25 80			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-30 30			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	Standard -25 40	CLP PG NSF H1 ⁴⁾ (PSS)	VG 220	-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-25 80			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						
	-30 30			-25 +95 GearFluid Poly 220 H1 E1 SEW 070040513						

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	FUCHS	Mobil	KLÜBER LUBRICATION	TotalEnergies
 R.. RES K..7 KES HK.. F..  	Standard -25 60	CLP HC	VG 220 ³⁾	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313	-25 +110 Renolin Unisyn CLP 220	-25 +110 Mobil SHC 630	-25 +110 Klübersynth GEM 4-220 N	-25 +110 Carter SH 220
	-30 50		VG 150 ³⁾	-35 +105 GearOil Synth 150 E1/US1 SEW 070040313	-30 +95 Renolin Unisyn CLP 150	-30 +100 Mobil SHC 629	-30 +100 Klübersynth GEM 4-150 N	-30 +95 Carter SH 150
	-35 20		VG 68		-35 +75 Renolin Unisyn CLP 68	-40 +75 Mobil SHC 626		
	-40 0		VG 32		-40 +50 Renolin Unisyn OL32	-40 +50 Mobil SHC 624		-40 +50 Dacnis SH 32
	Standard -25 60		VG 220 ³⁾	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313		-25 +110 Mobil SHC 630		
	-30 50		VG 150 ³⁾	-35 +105 GearOil Synth 150 E1/US1 SEW 070040313		-30 +100 Mobil SHC 629		

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremner & leguil	Castrol	FUCHS	KLÜBER LUBRICATION	
 R.. RES K..7 KES HK.. F..  	Standard -15 40	 	CLP HC NSF H1 ⁴⁾	VG 460	-20 +110	-15 +100	-15 +100	-15 +100	-15 +105	
	GearOil Synth 460 H1 E1/US1				Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460	Klüberoil 4 UH1-460 N		
	SEW 070040313				SEW 070040313					
	-25 30			VG 220	-30 +90	-25 +80	-25 +80	-25 +80	-25 +80	-25 +80
	GearOil Synth 220 H1 E1/US1				Cassida Fluid GL 220	Optileb GT 220	Cassida Fluid GL 220	Klüberoil 4 UH1-220 N		
	SEW 070040313				SEW 070040313					
	-35 0			VG 68		-35 +50	-40 +50	-35 +50	-35 +50	-35 +50
					Cassida Fluid HF 68	Optileb HY 68	Cassida Fluid HF 68	Klüberoil 4 UH1-68 N		
	-40 -10	VG 32		-40 +30	-40 +30	-40 +30	-40 +30	-40 +30		
			Cassida Fluid HF 32	Optileb HY 32	Cassida Fluid HF 32	KlüberSummit HySyn FG 32				
	Standard -15 40	 	CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110	-15 +100	-15 +100	-15 +100		
					GearOil Synth 460 H1 E1/US1	Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460		
					SEW 070040313	SEW 070040313				
	-25 30			VG 220	-30 +90	-25 +80	-25 +80	-25 +80		
	GearOil Synth 220 H1 E1/US1	Cassida Fluid GL 220	Optileb GT 220		Cassida Fluid GL 220					
		SEW 070040313	SEW 070040313							
Standard -15 50	 	E	VG 460				-15 +95			
						Plantogear 460 S				
						S2				
-20 40			VG 320				-20 +85	-20 +85		
	Plantogear 320 S	Klüberbio EG 2-320		S2	S2					

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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2.1. Other approved lubricants

The lubricants listed below meet the SEW requirements according to SEW specification SEW07004__13 for use in helical gear units (R..), helical-bevel gear units (K.7), and parallel-shaft helical gear units (F..) including PSS approval, however, they are not available as initial filling ex works.

The maximum permitted oil bath temperatures must not be exceeded.

The viscosity temperature behavior can vary greatly depending on the selected lubricant product. During operation of the above-mentioned gear units, the minimum operating viscosity of 25 mm²/s must not be undershot and the maximum operating viscosity of 40 000 mm²/s must not be exceeded.

Oil type	Manufacturer – product name	Viscosity
CLP (mineral) Max. oil bath temperature 80°C		
CLP-HC (synthetic based on polyalphaolefin) Max. oil bath temperature 100°C (short-term 110°C)	Chevron / Texaco / Caltex – Meropa EliteSyn XM	VG150 – VG680
	Hindustan Petroleum Corporation Limited – Parthan SL	VG220 – VG460
	Klüber Lubrication – Klübersynth MEG-4	VG150 – VG680
	PetroChina Lubricant Company – KunLun KPM/S Synthetic Heavy-duty Industrial Gear Oil	VG150 – VG680
	Shell – Omala S4 GXV Plus	VG150 – VG680
	Sinopec – AP-S Industrial Gear Oil	VG150 – VG680

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3. Helical-bevel gear units (K.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature			Öltyp / Oil Type	ISO, SAE NLGI						
K.9 	Standard			CLP PG (PSS)	VG 460	-20	+95	-20	+95		
	-20	60				GearOil Poly 460 E1		Klübersynth GH 6-460			
	SEW 070040313										
	-15	80			VG 680			-15	+115	Klübersynth GH 6-680	
	-25	40				-25	+70	-25	+70		
	-30	30			VG 220	GearOil Poly 220 E1		Klübersynth GH 6-220			
	SEW 070040313										
	-30	30				-30	+60	-30	+60		
	-25	40			VG 150	GearOil Poly 150 E1		Klübersynth GH 6-150			
SEW 070040313											
-25	40	-25	+70								
				VG 220	GearFluid Poly 220 E1						
					SEW 070040313						

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION
 K.9	Standard	 	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-20 +95	-20 +95
	-20 60				GearOil Poly 460 H1 E1	Klübersynth UH1 6-460
					SEW 070040313	
	-15 80			VG 680		-15 +115
						Klübersynth UH1 6-680
	-25 40			VG 220	-25 +70	-25 +70
					GearOil Poly 220 H1 E1	Klübersynth UH1 6-220
					SEW 070040313	
	-30 30			VG 150	-30 +60	-30 +60
					GearOil Poly 150 H1 E1	Klübersynth UH1 6-150
					SEW 070040313	
 	-25 40	 	CLP PG NSF H1 ⁴⁾ rPCF (PSS)	VG 220	-25 +70	
					GearFluid Poly 220 H1 E1	
					SEW 070040513	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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4. Helical-worm gear units (S.., HS..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	SINOPEC	TotalEnergies
S.. HS.. 	Standard 0 40	CLP	VG 680	0 +80 GearOil Base 680 S E1 SEW 070040313	0 +80 Optigear BM 680	0 +80 Renolin CLP 680 Plus SEW 070040313	0 +80 Mobilgear 600 XP 680 SEW 070040313	0 +80 Klüberoil GEM 1-680 N SEW 070040313	0 +80 AP-SGO 680 SEW 070040313	0 +80 Carter EP 680
	-20 25			-20 +65 GearOil Base 150 E1/US1/CN1/BR1 SEW 070040313	-20 +65 Optigear BM 150	-20 +65 Renolin CLP 150 Plus SEW 070040313	-20 +65 Mobilgear 600 XP 150 SEW 070040313	-20 +65 Klüberoil GEM 1-150 N SEW 070040313	-20 +65 AP-SGO 150 SEW 070040313	-20 +65 Carter EP 150
	Standard 0 40			0 +80 GearOil Base 680 S E1 SEW 070040313		0 +80 Renolin CLP 680 Plus SEW 070040313	0 +80 Mobilgear 600 XP 680 SEW 070040313		0 +80 AP-SGO 680 SEW 070040313	
	-20 25			-20 +65 GearOil Base 150 E1/US1/CN1/BR1 SEW 070040313		-20 +65 Renolin CLP 150 Plus SEW 070040313	-20 +65 Mobilgear 600 XP 150 SEW 070040313		-20 +65 AP-SGO 150 SEW 070040313	
		CLP (PSS)	VG 680							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI						
 S.. HS..	Standard -20 80	Ex	CLP PG 1)	VG 460				-20 +115 Klübersynth GH 6-460		
	-25 60			VG 220	-25 +90 Optigear Synthetic 800/220	-25 +95 Renolin PG 220	-25 +100 Mobil Glygoyle 220	-25 +100 Klübersynth GH 6-220	-25 +90 Shell Omala S4 WE 220	-25 +90 Carter SY 220
	-30 40			VG 150				-30 +85 Klübersynth GH 6-150		
	Standard -20 80	Ex	CLP PG 1) (PSS)	VG 460				-20 +115 Klübersynth GH 6-460		
	-25 60			VG 220				-25 +100 Klübersynth GH 6-220		
	-30 40			VG 150				-30 +85 Klübersynth GH 6-150		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION
S.. HS.. 	Standard		CLP PG NSF H1 ¹⁾⁴⁾ (PSS)	VG 460	-20 +110	-20 +110
	-20 70				GearOil Poly 460 H1 E1	Klübersynth UH1 6-460
					SEW 070040313	
	-25 40			VG 220	-25 +80	-25 +80
					GearOil Poly 220 H1 E1	Klübersynth UH1 6-220
					SEW 070040313	
	-30 20			VG 150	-30 +65	-30 +65
					GearOil Poly 150 H1 E1	Klübersynth UH1 6-150
					SEW 070040313	
	-25 40		CLP PG NSF H1 ¹⁾⁴⁾ rPCF (PSS)	VG 220	-25 +80	
					GearFluid Poly 220 H1 E1	
					SEW 070040513	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	FUCHS	Mobil	KLÜBER LUBRICATION	TotalEnergies
S.. HS.. 	Standard -15 60	 CLP HC	VG 460	-20 +110 GearOil Synth 460 E1/US1 SEW 070040313	-15 +100 Renolin Unisyn CLP 460	-20 +105 Mobil SHC 634	-15 +105 Klübersynth GEM 4-460 N	-15 +105 Carter SH 460
	-30 30			-35 +75 GearOil Synth 150 E1/US1 SEW 070040313	-30 +70 Renolin Unisyn CLP 150	-30 +75 Mobil SHC 629	-30 +70 Klübersynth GEM 4-150 N	-30 +70 Carter SH 150
	-35 20				-35 +50 Renolin Unisyn CLP 68	-40 +55 Mobil SHC 626		
	-40 0		VG 32		-40 +30 Renolin Unisyn OL32	-40 +30 Mobil SHC 624		-40 +30 Dacnis SH 32
	Standard -15 60			-20 +110 GearOil Synth 460 E1/US1 SEW 070040313		-20 +105 Mobil SHC 634		
	-30 30	 CLP HC (PSS)	VG 150 ³⁾	-35 +75 GearOil Synth 150 E1/US1 SEW 070040313		-30 +75 Mobil SHC 629		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguit	Castrol	FUCHS	KLÜBER LUBRICATION
S.. HS.. 	Standard -15 40	 	CLP HC NSF H1 ⁴⁾	VG 460	-20 +95 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +85 Cassida Fluid GL 460	-15 +90 Optileb GT 460	-15 +85 Cassida Fluid GL 460	-15 +90 Klüberoil 4 UH1-460 N
	-25 30				-30 +75 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +70 Cassida Fluid GL 220	-25 +70 Optileb GT 220	-25 +70 Cassida Fluid GL 220	-25 +70 Klüberoil 4 UH1-220 N
	-35 0			VG 68		-35 +40 Cassida Fluid HF 68	-40 +40 Optileb HY 68	-35 +40 Cassida Fluid HF 68	-35 +40 Klüberoil 4 UH1-68 N
	-40 -10					-40 +25 Cassida Fluid HF 32	-40 +20 Optileb HY 32	-40 +25 Cassida Fluid HF 32	-40 +25 KlüberSummit HySyn FG 32
	Standard -15 40	 	CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +95 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +85 Cassida Fluid GL 460	-15 +90 Optileb GT 460	-15 +85 Cassida Fluid GL 460	
	-25 30				-30 +75 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +75 Cassida Fluid GL 220	-25 +70 Optileb GT 220	-25 +75 Cassida Fluid GL 220	
	Standard -15 50			VG 460				-15 +95 Plantogear 460 S S2	
	-20 40							-20 +85 Plantogear 320 S S2	
		 	E	VG 320					

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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5. Helical-worm gear units (S.7p)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		
S.7p 	Standard		VG 460	-20	+115	
	-20	80		GearOil Poly 460 E1		
				SEW 070040313		
	-25	60		VG 220	-25	+100
					GearOil Poly 220 E1	
					SEW 070040313	
	-30	40	VG 150	-30	+85	
				GearOil Poly 150 E1		
				SEW 070040313		
				VG 220	-25	+100
	-25	60			GearFluid Poly 220 E1	
					SEW 070040313	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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SEW drives of the series

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6. Spiroplan gear units (W.0, HW.0, W.9HG)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION
 W.0  HW.0  W.9HG	Standard -20 60	CLP PG (PSS)	VG 460	-20 +115 GearOil Poly 460 W E1 SEW 070040313		
	-20 60	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-20 +115 GearOil Poly 460 H1 E1 SEW 070040313		-20 +115 Klübersynth UH1 6-460
	-30 20	CLP PG NSF H1 ⁴⁾ (PSS)	VG 150	-30 65 GearOil Poly 150 H1 E1 SEW 070040313		-30 +65 Klübersynth UH1 6-150
	-40 10	API GL5	SAE 75W90 (~VG 100)		-40 +65 Mobil Synthetic Gear Oil 75 W90	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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7. Spiroplan gear units (W.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	KLÜBER LUBRICATION
W.9 	Standard -25 60	Ex	CLP PG (PSS)	VG 220	-25 +100 GearOil Poly 220 E1 SEW 070040313	-25 +100 Klübersynth GH 6-220
	-20 80			VG 460	-20 +115 GearOil Poly 460 E1 SEW 070040313	-20 +115 Klübersynth GH 6-460
	-30 40			VG 150	-30 +85 GearOil Poly 150 E1 SEW 070040313	-30 +85 Klübersynth GH 6-150
	-25 60	Ex	CLP PG rPCF (PSS)	VG 220	-25 +100 GearFluid Poly 220 E1 SEW 070040313	
	Standard -25 40			VG 220	-25 +80 GearOil Poly 220 H1 E1 SEW 070040313	-25 +80 Klübersynth UH1 6-220
	-20 70			VG 460	-20 +110 GearOil Poly 460 H1 E1 SEW 070040313	-20 +110 Klübersynth UH1 6-460
	-30 20			VG 150	-30 +65 GearOil Poly 150 H1 E1 SEW 070040313	-30 +65 Klübersynth UH1 6-150
	-25 40			VG 220	-25 +80 GearFluid Poly 220 H1 E1 SEW 070040513	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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Produkt / Product	Öltyp / Oil Type	ISO, SAE NLGI			
 PxG 		CLP PG (PSS)	VG 220	-15	+90
				GearOil Poly 220 E1 SEW 070040313	
			VG 150	-20	+90
				GearOil Poly 150 E1 SEW 070040313	
	 	CLP PG rPCF (PSS)	VG 220	-15	+90
				GearFluid Poly 220 E1 SEW 070040313	
		CLP PG NSF H1 ⁽⁴⁾ (PSS)	VG 220	-15	+90
				GearOil Poly 220 H1 E1 SEW 070040313	
			VG 150	-20	+90
				GearOil Poly 150 H1 E1 SEW 070040313	
 	CLP PG NSF H1 ⁽⁴⁾ rPCF (PSS)	VG 220	-15	+90	
			GearFluid Poly 220 H1 E1 SEW 070040513		
	Fett / Grease	NLGI 2	-15	+90	
			Grease HL2 E1		
			NLGI 2	-15	+90
				Grease HL2 H1 E1	

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9. PS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature			Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION		
PS.F 	Standard			CLP PG (PSS)	VG 220	-25	+100		-25	+100
	-25	80				GearOil Poly 220 E1			Klübersynth GH 6-220	
						SEW 070040313				
			 	CLP PG rPCF (PSS)	VG 220	-25	+100			
	-25	80				GearFluid Poly 220 E1				
						SEW 070040313				
			 	CLP PG NSF H1 4) (PSS)	VG 460	-20	+100		-20	+100
	-20	80				GearOil Poly 460 H1 E1			Klübersynth UH1 6-460	
						SEW 070040313				
				CLP HC	VG 32			-40	+50	
-40	0	Mobil SHC 624								

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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10. PS.C gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	Mobil	KLÜBER LUBRICATION
 PS.C	Standard -15 40	CLP	VG 220	-15 +80 GearOil Base 220 E1/US1/CN1/BR1 SEW 070040313	-15 +80 Mobilgear 600 XP 220 SEW 070040013	
	-40 0	CLP HC	VG 32		-40 +50 Mobil SHC 624	
	-20 40	Fett / Grease 	NLGI 00 ²⁾		-20 +80 Mobilux EP 004	
	-20 40		NLGI 1			-20 +80 Klübersynth UH1 14-151

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

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11. BS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature			Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE		KLÜBER LUBRICATION	
BS.F 	Standard			CLP PG (PSS)	VG 220	-25	+100	-25	+100
	-25	60				GearOil Poly 220 E1		Klübersynth GH 6-220	
						SEW 070040313			
			  	CLP PG rPCF (PSS)	VG 220	-25	+100		
	-25	60				GearFluid Poly 220 E1			
						SEW 070040313			
			 	CLP PG NSF H1 ⁴⁾ (PSS)	VG 460	-20	+100	-20	+100
	-20	60				GearOil Poly 460 H1 E1		Klübersynth UH1 6-460	
		SEW 070040313							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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12. MGF gear units (MGF..-B, MGF..-C, MGF..-DSM, MGF../PG)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil
 MGF..-C	Standard -25 60	CLP HC (PSS)	VG 220	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Mobil SHC 630
	-30 50			-35 +105 GearOil Synth 150 E1/US1 SEW 070040313				-30 +100 Mobil SHC 629
	-40 20							-40 +75 Mobil SHC 626
	Standard -15 40	CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460	
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220	
	-35 10				-35 +50 Cassida Fluid HF 68	-40 +50 Optileb HY 68	-35 +50 Cassida Fluid HF 68	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	TotalEnergies
	Standard -25 60	CLP HC	VG 220	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Renolin Unisyn CLP 220	-25 +110 Mobil SHC 630	-25 +110 Klübersynth GEM 4-220 N Carter SH 220
	-30 50			-35 +105 GearOil Synth 150 E1/US1 SEW 070040313				-30 +95 Renolin Unisyn CLP 150	-30 +100 Mobil SHC 629	-30 +100 Klübersynth GEM 4-150 N Carter SH 150
	Standard -25 60			-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Mobil SHC 630		
	-30 50			-35 +105 GearOil Synth 150 E1/US1 SEW 070040313				-30 +100 Mobil SHC 629		
	Standard -15 40	CLP HC NSF H1 ⁴⁾	VG 460	-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460		-15 +105 Klüberoil 4 UH1-460 N	
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220		-25 +80 Klüberoil 4 UH1-220 N	
	Standard -15 40			-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460			
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220			
	Standard -15 40	CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460			
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220			
	Standard -15 40			-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460			
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313	-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil
 MGF...B /PG MGF...-DSM /PG MGF...-C /PG 	Standard -25 60	CLP HC (PSS)	VG 220	-30 +110 GearOil Synth 220 E1/US1 SEW 070040313				-25 +110 Mobil SHC 630
	-30 50			-35 +105 GearOil Synth 150 E1/US1 SEW 070040313				-30 +100 Mobil SHC 629
	Standard -15 40			-20 +110 GearOil Synth 460 H1 E1/US1 SEW 070040313				
	-25 30			-30 +90 GearOil Synth 220 H1 E1/US1 SEW 070040313				
		CLP HC NSF H1 ⁴⁾ (PSS)	VG 460	-15 +100 Cassida Fluid GL 460 SEW 070040313	-15 +100 Optileb GT 460 SEW 070040313	-15 +100 Cassida Fluid GL 460		
			VG 220	-25 +80 Cassida Fluid GL 220 SEW 070040313	-25 +80 Optileb GT 220 SEW 070040313	-25 +80 Cassida Fluid GL 220		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!

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13. Hoist drives (G.7)

Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	// <i>KLÜBER</i> LUBRICATION	
G.7 	-15 Standard 40		CLP PG (PSS)	VG 680	-15	+115
					Klübersynth GH 6-680	

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well!