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SEW drives of the series

R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

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Change information:

Chapter/page	Description (changes to the previous edition)	Modification no.
General	Approval from Texaco expired. Current lubricant change intervals included. Lubricants for Movigear included. Lubricants extended with PSS compatible lubricants. Country codes for lubricants added. Oil seal compatibility according to document 07004__13 for lubricant Fuchs Renolin SEW 680 added.	170847

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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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil
	Standard -15 40	CLP	VG 220		-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220	-15 +80 Mobilgear 600 XP 220 DE, FR SEW070040013
	-20 30		VG 150 ⁴⁾		-20 +70 Optigear BM 150	-20 +70 Renolin CLP 150	-20 +70 Mobilgear 600 XP 150 DE, FR SEW070040013

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!

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Abbreviations:

	Synthetic lubricant
	Mineral lubricant
CLP	Mineral oil
CLP PG	Polyglycol (PG)
CLP HC	Synthetic hydrocarbons – polyalphaolefins (PAO)
E	Oil based on esters
	Lubricant suitable for ATEX environment
	Lubricant for the food processing industry – NSF-H1-compliant
	Easily biodegradable oil for environmentally sensitive areas
1)	Helical-worm gear units with CLP-PG: contact SEW-EURODRIVE
2)	Special lubricant only for Spiroplan® gear units
3)	Recommendation: Select SEW $f_B \geq 1.2$
4)	Observe the critical starting behavior at low temperatures
5)	Low-viscosity grease
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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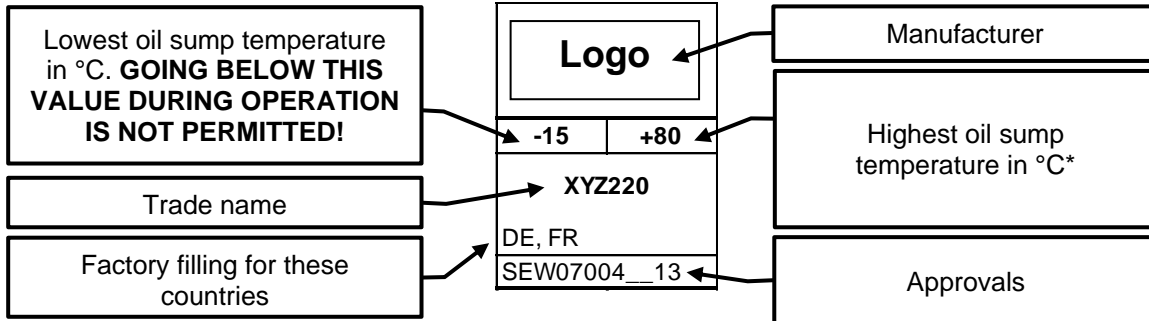
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1.2. Explanations on the individual lubricants



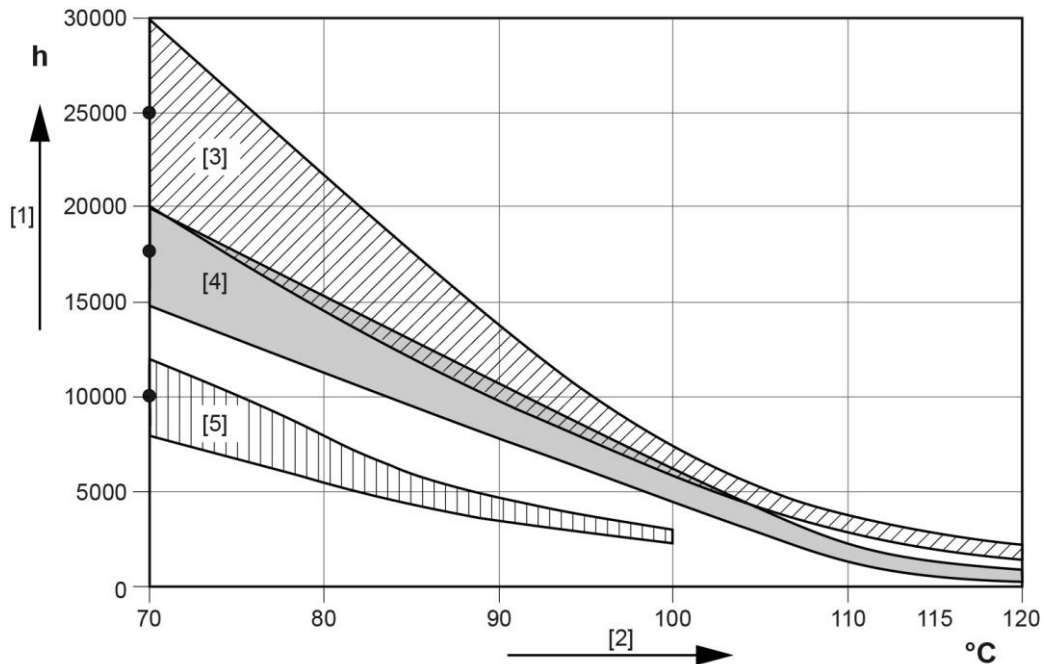
* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

Countries

- BR Brazil
- CN China
- EN Germany
- FR France
- US United States of America

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.



- [1] Operating hours
- [2] Sustained oil bath temperature
Average value per oil type at 70 °C
- [3] CLP PG/CPL PG NSF H1
- [4] CLP HC/CLP HC NSF H1
- [5] CLP (CC)/E

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 ⁶⁾ ... +80°C
FKM	-25°C ⁶⁾ ... +115°C
FKM-PSS	-25°C ⁶⁾ ... +115°C

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	75 FKM 170055
		2 Trelleborg	1	VCBVR

Example 1:

S11 - Only the elastomer Freudenberg 72NBR902 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 (K37-K187), parallel-shaft helical gear units (F..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K.7 KES HK.. F.. 	Standard -15 40	CLP	VG 220		-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220	-15 +80 Mobilgear 600 XP 220 DE, FR SEW070040013	-15 +80 Klüberoil GEM 1-220 N	-15 +80 Shell Omala S2 G 220 CN, US	-15 +80 Carter EP 220
	-20 30				-20 +70 Optigear BM 150	-20 +70 Renolin CLP 150	-20 +70 Mobilgear 600 XP 150 DE, FR SEW070040013	-20 +70 Klüberoil GEM 1-150 N	-20 +70 Shell Omala S2 G 150	-20 +70 Carter EP 150
	-25 80	CLPPG	VG 220		-25 +115 Optigear Synthetic 800/220	-25 +115 Renolin PG 220	-25 +115 Mobil Glygoyle 220 DE, FR	-25 +115 Klübersynth GH 6-220	-25 +115 Shell Omala S4 WE 220 CN, US	-25 +115 Carter SY 220
	-25 80	CLP PG - PSS	VG 220					-25 +115 Klübersynth GH 6-220 DE,FR,US,BR,CN		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature		Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil		KLÜBER LUBRICATION	Shell		TOTAL										
								-25	+110		-25	+110	-25	+110	-25	+110							
R.. RES K.7 KES HK.. F..   	Standard		CLP HC	VG 220				-30	+110	Optigear Synthetic PD 220	Renolin Unisyn CLP 220	Mobil SHC 630		Klübersynth GEM 4-220 N	Shell Omala S4 GX 220		Carter SH 220						
	-25 60							DE, FR				BR			CN, US								
	-30 70							-30	+100			-30	+95		-30	+100		-30	+100	-30	+100	-30	+95
								Optigear Synthetic PD 150				Renolin Unisyn CLP 150			Mobil SHC 629			Klübersynth GEM 4-150 N		Shell Omala S4 GX 150		Carter SH 150	
	-40 20														-35 +75			-40 +75		-40 +75			
															Renolin Unisyn CLP 68			Mobil SHC 626		Shell Omala S4 GX 68			
	-40 20																					-40 +50	
															Renolin Unisyn OL32			Mobil SHC 624				Dacnis SH 32	
Standard		CLP HC - PSS	VG 220					-25	+110	Mobil SHC 630													
-25 60								DE,FR,US,BR,CN															
-30 70								-30	+100	Mobil SHC 629													
								DE,FR,US,BR,CN															

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
R... RES K..7 KES HK.. F.. 	Standard -15 40	 CLP HC - NSF H1 	VG 460	-15 +100	-15 +100			-15 +105			
				Cassida Fluid GL 460	Optileb GT 460	DE, FR			Klüberoil 4UH1-460 N		
						SEW070040013					
	-25 30	 CLP HC - NSF H1 	VG 220	-25 +80	-25 +80			-25 +80			
				Cassida Fluid GL 220	Optileb GT 220	DE, FR			Klüberoil 4UH1-220 N		
						SEW070040013					
	-35 20	 CLP HC - NSF H1 	VG 68 ⁴⁾	-40 +50	-35 +50			-35 +50			
				Cassida Fluid HF 68	Optileb HY 68	DE, FR			Klüberoil 4UH1-68 N		
-40 10	 CLP HC - NSF H1 	VG 32 ⁴⁾	-40 +30	-40 +30			-40 +30				
			Cassida Fluid HF 32	Optileb HY 32	DE, FR			KlüberSummit HySyn FG 32			
Standard -15 40	 CLP HC - NSF H1 - PSS 	VG 460		-15 +100							
					Optileb GT 460	DE,FR,US,BR,CN					
					SEW070040013						
-25 30	 CLP HC - NSF H1 - PSS 	VG 220		-25 +80							
						Optileb GT 220	DE,FR,US,BR,CN				
					SEW070040013						
-20 40	 	E	VG 460			-20 +80		-20 +80			
						Plantogear 460 S		Klüberbio CA2-460			
						DE, FR					

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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3. Helical-bevel gear units (K19-K49)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
K.9 	Standard -20 60	CLP PG (- PSS) 	VG 460					-20 +95 Klübersynth GH 6-460 DE,FR,US,BR,CN		
	-15 80		VG 680					-15 +115 Klübersynth GH 6-680 DE,FR,US,BR,CN		
	-25 40		VG 220					-25 +70 Klübersynth GH 6-220 DE,FR,US,BR,CN		
	-30 30		VG150 ⁴⁾					-30 +60 Klübersynth GH 6-150 DE,FR,US,BR,CN		
	Standard -20 60	CLP PG - NSF H1 (- PSS) 	VG 460					-20 +95 Klübersynth UH1 6-460 DE,FR,US,BR,CN		
	-15 80		VG 680					-15 +115 Klübersynth UH1 6-680 DE,FR,US,BR,CN		
	-25 40		VG 220					-25 +70 Klübersynth UH1 6-220 DE,FR,US,BR,CN		
	-30 30		VG150 ⁴⁾					-30 +60 Klübersynth UH1 6-150 DE,FR,US,BR,CN		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL				
											0	+80	0	+80
 S.. HS..	Standard 0 40	CLP	VG 680				Mobilgear 600 XP 680	Klüberoil GEM 1-680 N	Shell Omala S2 G 680	Carter EP 680				
	-20 25										Optigear BM 680	Renolin SEW 680	SEW070040013	US
												DE, FR		
	-20 25										Optigear BM 150	Renolin CLP 150	SEW070040013	US
			DE, FR											
	Standard -15 80	CLP PG	VG 680 ¹⁾				Mobil Glygoyle 680	Klübersynth GH 6-680	Shell Omala S4 WE 680					
	-25 40										Optigear Synthetic 800/680	Renolin PG 680	DE, FR	
		-25 40	CLP PG - PSS	VG 220 ¹⁾				Mobil Glygoyle 220	Klübersynth GH 6-220	Shell Omala S4 WE 220	Carter SY 220			
	Optigear Synthetic 800/220											Renolin PG 220	DE, FR	
	Standard -15 80	CLP PG - PSS	VG 680 ¹⁾					Klübersynth GH 6-680	DE,FR,US,BR,CN					
-25 40	VG 220 ¹⁾													

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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
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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI				Mobil			Shell		TOTAL																									
							-20	+105		-15	+105	-15	+105	-15	+105																						
	Standard -15 60		CLP HC	VG 460		Optigear Synthetic PD 460	-20	+110	Renolin Unisyn CLP 460	-15	+100	Mobil SHC 634 DE, FR		Klübersynth GEM 4-460 N	-15	+105	Shell Omala S4 GX 460		Carter SH 460																		
	-30 40											VG 150 ⁴⁾	Optigear Synthetic PD 150				-30 +75			Renolin Unisyn CLP 150		-30 +75		Klübersynth GEM 4-150 N		-30 +75		Shell Omala S4 GX 150		Carter SH 150							
	-40 30												VG 68 ⁴⁾							-35 +50		Renolin Unisyn CLP 68		-40 +55				-40 +50		Shell Omala S4 GX 68							
	-40 10											VG 32 ⁴⁾								-40 +30		Renolin Unisyn OL32		-40 +30								Dacnis SH 32					
	Standard -15 60												CLP HC - PSS				VG 460							Mobil SHC 634 DE,FR,US,BR,CN													
	-30 40											VG 150 ⁴⁾														-30 +75		Mobil SHC 629 DE,FR,US,BR,CN									

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
	Standard -15 40	⊕ CLPHC - NSF H1	VG 460	-15 +85	-15 +90			-15 +90		
				Cassida Fluid GL 460	Optileb GT 460					
					DE, FR					
					SEW070040013					
	-25 30	⊕ CLPHC - NSF H1	VG 220	-25 +75	-25 +70			-25 +70		
				Cassida Fluid GL 220	Optileb GT 220					
					DE, FR					
					SEW070040013					
	-35 10	⊕ CLPHC - NSF H1	VG 68 ⁴⁾	-35 +40	-35 +40			-35 +40		
				Cassida Fluid HF 68	Optileb HY 68					
					DE, FR					
-40 0	⊕ CLPHC - NSF H1	VG 32 ⁴⁾	-40 +25	-40 +20			-40 +25			
			Cassida Fluid HF 32	Optileb HY 32						
				DE, FR						
Standard -15 40	⊕ CLPHC - NSF H1 - PSS	VG 460		-15 +90						
				Optileb GT 460						
				DE,FR,US,BR,CN						
-25 30	⊕ CLPHC - NSF H1 - PSS	VG 220		-25 +70						
				Optileb GT 220						
				DE,FR,US,BR,CN						
				SEW070040013						
-20 40	⊕ E	VG 460				-20 +80		-20 +80		
						Plantogear 460 S		Klüberbio CA2-460		
						DE, FR				

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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5. Spiroplan gear units (W.., HW..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI							
 W.. HW..	Standard -20 40	 CLP PG	VG 460 ²⁾					-20 +80 Klüber SEW HT-460-5 DE,FR,US,BR,CN S1		
	-20 60	 CLP PG NSF H1 (- PSS)	VG 460 ³⁾					-20 +115 Klübersynth UH1 6-460 DE,FR,US,BR,CN		
	-40 30	 API GL5	SAE 75W90 (~VG 100) ⁴⁾				-40 +65 Mobil Synth Gear Oil 75 W90 DE,FR,US,BR,CN			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

6. PS-F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI							
 PSF	Standard -25 80	 CLP PG (- PSS)	VG 220					-25 +100 Klübersynth GH 6-220 DE,FR,US,BR,CN		
	-20 80	 CLP PG NSF H1 (- PSS)	VG 460 ³⁾					-20 +100 Klübersynth UH1 6-460 DE,FR,US,BR,CN		
	-40 20	 CLP HC	VG 32 ⁴⁾				-40 +50 Mobil SHC 624 DE,FR,US,BR,CN			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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7. PS-C gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI							
	Standard -15 40	CLP	VG 220				-15 +80 Mobilgear 600 XP 220 DE,FR,US,BR,CN SEW070040013			
	-40 20	CLP HC	VG 32 ⁴⁾				-40 +50 Mobil SHC 624 DE,FR,US,BR,CN			
	-20 40	Fett / Grease 	NLGI 00 ⁵⁾				-20 +80 Mobilux EP 004 DE,FR,US,BR,CN			
	-20 40		NLGI 1				-20 +80 Klübersynth UH1 14-151 DE,FR,US,BR,CN			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

8. BS-F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI							
	Standard -25 60	CLP PG (- PSS)	VG 220					-25 +100 Klübersynth GH 6-220 DE,FR,US,BR,CN		
	-20 60	CLP PG NSF H1 (- PSS)	VG 460					-20 +100 Klübersynth UH1 6-460 DE,FR,US,BR,CN		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

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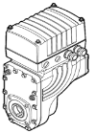
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9. MGF gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil		KLÜBER LUBRICATION	Shell		TOTAL	
							-25	+110		-25	+110	-25	+110
	Standard -25 60	CLP HC	VG 220				-30	+110	Optigear Synthetic PD 220 Renolin Unisyn CLP 220 Mobil SHC 630 DE	Klübersynth GEM 4-220 N BR	Shell Omala S4 GX 220 CN, US	Carter SH 220	
	-30						+100	-30					+95
	-30	50	VG 150 ⁴⁾										
	Standard -25 60	CLP HC - PSS	VG 220					-25	+110	Mobil SHC 630 DE,FR,US,BR,CN			
-30	50							VG 150 ⁴⁾					

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

Supplier Approval

SEW drives of the series

R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

Lubricant approvals – latest version: www.sew-eurodrive.de/lubricants

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
	Standard -15 40	CLP HC - NSF H1	VG 460	-15 +100	Cassida Fluid GL 460	-15 +100	Optileb GT 460	-15 +105	Klüberoil 4UH1-460 N	
				DE	SEW070040013					
	-25 30		VG 220	-25 +80	Cassida Fluid GL 220	-25 +80	Optileb GT 220	-25 +80	Klüberoil 4UH1-220 N	
				DE	SEW070040013					
	Standard -15 40	CLP HC - NSF H1 - PSS	VG 460	-15 +100	Optileb GT 460	-15 +100	Optileb GT 460			
				DE,FR,US,BR,CN	SEW070040013					
	-25 30		VG 220	-25 +80	Optileb GT 220	-25 +80	Optileb GT 220			
				DE,FR,US,BR,CN	SEW070040013					
	-20 40	E	VG 460			-20 +80	Plantogear 460 S	-20 +80	Klüberbio CA2-460	
						DE				

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.

Supplier Approval

SEW drives of the series







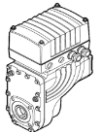
R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI				Mobil			
	Standard -15 40	CLP HC (- PSS)	VG 460				-25 +110 Mobil SHC 630 DE,FR,US,BR,CN			
	-25 30		VG 220				-30 +100 Mobil SHC 629 DE,FR,US,BR,CN			
	Standard -15 40	CLP HC - NSF H1 (-PSS)	VG 460			-15 +100 Optileb GT 460 DE,FR,US,BR,CN SEW070040013				
	-25 30		VG 220			-25 +80 Optileb GT 220 DE,FR,US,BR,CN SEW070040013				
	-20 40		E	VG 460			-20 +80 Plantogear 460 S DE			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.2) have to be considered as well.