

Supplier Approval

01 751 17 04
63085461.17



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

EN Page 1/18

EGT-TD 05.02.2019

Change information:

Chapter/page	Description (changes to the previous edition)	Modification no.
1.3/5; 2/7; 3/10; 5/1; 8/15 2/9; 4/13; 9/16	Approval: SEW GearOil Poly 150-220-460 (H1) E1 Cassida series added to Fuchs lubricants.	
5/14	W gear units Approval Klüber SEW H.T 460-5 expired. Recommendation: SEW $f_B \geq 1.2$ deleted.	
9/17	New: MGF 1-DSM-C / MFG 2-4 /PG	

Supplier Approval

01 751 17 04
63085461.17



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

EN Page 2/18

EGT-TD 05.02.2019

Table of contents

1.	Introduction/area of application.....	3
1.1.	Explanations of the structure of the tables.....	3
1.2.	Explanations on the individual lubricants.....	5
1.3.	Lubricant change intervals.....	5
1.4.	Compatibility of lubricants with radial oil seals.....	6
2.	Helical gear units (R.), helical-bevel gear units (K37-K187), parallel-shaft helical gear units (F.).....	7
3.	Helical-bevel gear units (K19-K49).....	10
4.	Helical-worm gear units (S., HS.).....	11
5.	Spiroplan gear units (W., HW.).....	14
6.	PS.F gear units.....	14
7.	PS.C gear units.....	15
8.	BS.F gear units.....	15
9.	MGF gear units.....	16

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	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil
 R.. RES K..7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15 +80 SEW GearOil Base 220 E ¹ SEW 070040313		-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220 Plus	-15 +80 Mobilgear 600 XP 220
 R.. RES K..7 KES HK.. F..	-20 30	CLP PG	VG 150	-20 +80 SEW GearOil Base 150 E ¹ SEW 070040313		-20 +80 Optigear BM 150	-20 +80 Renolin CLP 150 Plus	-20 +80 Mobilgear 600 XP 150
 R.. RES K..7 KES HK.. F..	-25 80	CLP PG - PSS	VG 220	-25 +115 SEW GearOil Poly 220 E ¹ SEW 070040313		-25 +115 Optigear Synthetic 800/220	-25 +115 Renolin PG 220	-25 +115 Mobil Glygoyle 220

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.

Supplier Approval

01 751 17 04
63085461.17

SEW
EURODRIVE

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

EN Page 4/18

EGT-TD 05.02.2019

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 and feed industry. Oils are NSF-H1 registered and compliant according to FDA 21 CFR § 178.3570.
	Easily biodegradable oil for environmentally sensitive areas
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.
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.

Supplier Approval

01 751 17 04
63085461.17



SEW drives of the series

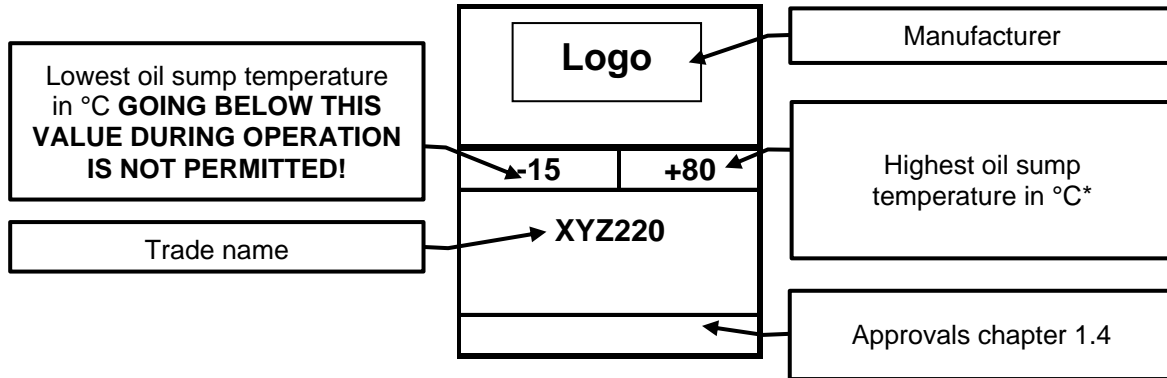
R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

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

EN Page 5/18

EGT-TD 05.02.2019

1.2. Explanations on the individual lubricants

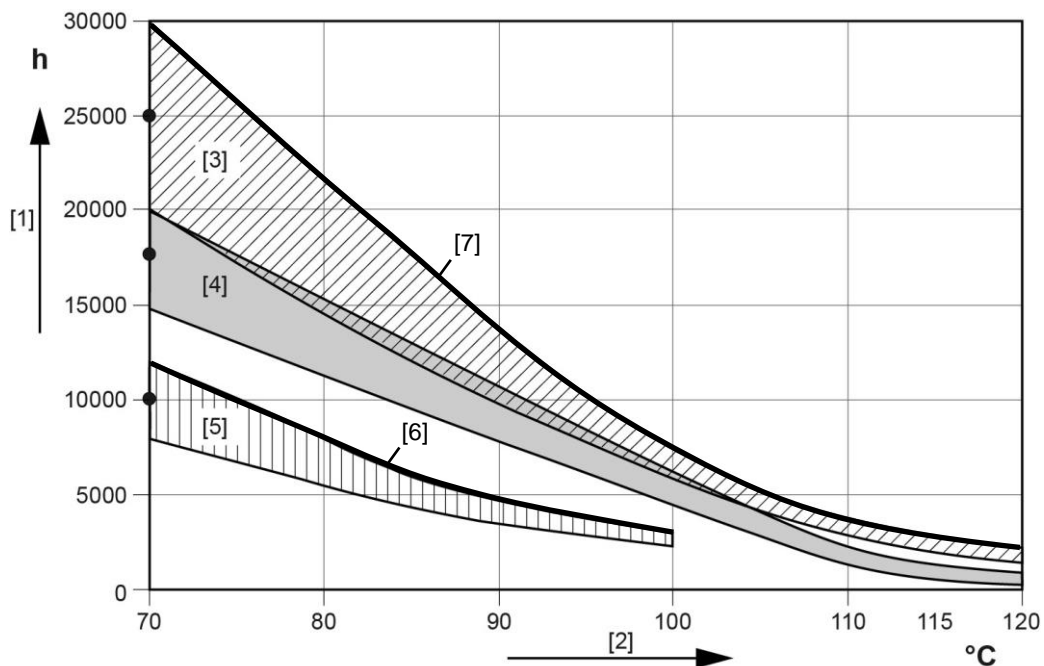


* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

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 | [4] CLP HC/CLP HC NSF H1 |
| [2] Sustained oil bath temperature | [5] CLP (CC)/E |
| Average value per oil type at 70 °C | [6] SEW GearOil Base |
| [3] CLP PG/CPL PG NSF H1 | [7] SEW GearOil Poly |

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 75 FKM 170055	
		2 Trelleborg	1 VCBVR	

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.

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

01 751 17 04
63085461.17

SEW
EURODRIVE

EN Page 7/18
EGT-TD 05.02.2019

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	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K..7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15 +80 SEW GearOil Base 220 E ¹ SEW 070040313		-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 S2 G 220	-15 +80 Carter EP 220
	-20 30			VG 150	-20 +80 SEW GearOil Base 150 E ¹ SEW 070040313		-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 S2 G 150
 F..	-25 80	 CLP PG	VG 220	-25 +115 SEW GearOil Poly 220 E ¹ 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
	-25 80			 CLP PG - PSS	VG 220	-25 +115 SEW GearOil Poly 220 E ¹ SEW 070040313				-25 +115 Klübersynth GH 6-220	

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



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

01 751 17 04
63085461.17



EN Page 8/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K..7 KES HK.. F..  	Standard -25 60	Ex CLP HC	VG 220 ³⁾			-30 +110 Optigear Synthetic PD 220	-25 +110 Renolin Unisyn CLP 220	-25 +110 Mobil SHC 630	-25 +110 Klübersynth GEM 4-220 N	-25 +110 Shell Omala S4 GX 220	-25 +110 Carter SH 220
	-30 50		VG 150 ³⁾			-30 +100 Optigear Synthetic PD 150	-30 +95 Renolin Unisyn CLP 150	-30 +100 Mobil SHC 629	-30 +100 Klübersynth GEM 4-150 N	-30 +100 Shell Omala S4 GX 150	-30 +95 Carter SH 150
	-35 20		VG 68				-35 +75 Renolin Unisyn CLP 68	-40 +75 Mobil SHC 626		-40 +75 Shell Omala S4 GX 68	
	-40 0		VG 32				-40 +50 Renolin Unisyn OL32	-40 +50 Mobil SHC 624			-40 +50 Dacnis SH 32
	Standard -25 60	Ex CLP HC - PSS	VG 220 ³⁾					-25 +110 Mobil SHC 630			
	-30 50		VG 150 ³⁾					-30 +100 Mobil SHC 629			

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

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

01 751 17 04
63085461.17



EN Page 9/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & 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 Cassida Fluid GL 460	-15 +100 Optileb GT 460 DE, FR SEW070040313	-15 +100 Cassida Fluid GL 460	-15 +105 Klüberoil 4UH1-460 N		
	-25 30					-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220	-25 +80 Klüberoil 4UH1-220 N		
	-35 0					-40 +50 Cassida Fluid HF 68	-35 +50 Optileb HY 68	-40 +50 Cassida Fluid HF 68	-35 +50 Klüberoil 4UH1-68 N		
	-40 -10					-40 +30 Cassida Fluid HF 32	-40 +30 Optileb HY 32	-40 +30 Cassida Fluid HF 32	-40 +30 KlüberSummit HySyn FG 32		
 	Standard -15 40	 CLP HC - NSF H1 - PSS	VG 460			-15 +100 Optileb GT 460 SEW070040313					
	-25 30					-25 +80 Optileb GT 220 SEW070040213					
	-20 40	E	VG 460				-20 +80 Plantogear 460 S S2		-20 +80 Klüberbio CA2-460 S2		

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

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

01 751 17 04
63085461.17



EN Page 10/18
EGT-TD 05.02.2019

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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL							
K.9 	Standard -20 60	CLP PG (- PSS) 	VG 460	-20 +95 SEW GearOil Poly 460 E ¹														
				SEW 070040313														
				VG 680														
		VG 220																
		VG 150																
K.9 	Standard -20 60	CLP PG - NSF H1 (- PSS) 	VG 460	-20 +95 SEW GearOil Poly 460 H1 E ¹														
				SEW 070040313														
				VG 680														
		VG 220																
		VG 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

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

01 751 17 04
63085461.17

SEW
EURODRIVE

EN Page 11/18
EGT-TD 05.02.2019

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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
S. HS.. 	Standard 0 40	CLP	VG 680	0 +80 SEW GearOil Base 680 S E ¹ SEW070040313		0 +80 Optigear BM 680 SEW070040313	0 +80 Renolin CLP 680 Plus SEW070040313	0 +80 Mobilgear 600 XP 680 SEW070040313	0 +80 Klüberoil GEM 1-680 N	0 +80 Shell Omala S2 G 680	0 +80 Carter EP 680
	-20 25			-20 +65 SEW GearOil Base 150 E ¹ SEW070040313	-20 +65 Optigear BM 150 SEW070040313	-20 +65 Renolin CLP 150 Plus SEW070040313	-20 +65 Mobilgear 600 XP 150 SEW070040313	-20 +65 Klüberoil GEM 1-150 N	-20 +65 Shell Omala S2 G 150	-20 +65 Carter EP 150	
	Standard -15 80	CLP PG	VG 680 ¹⁾			-15 +115 Optigear Synthetic 800/680	-15 +115 Renolin PG 680	-15 +115 Mobil Glygoyle 680	-15 +115 Klübersynth GH 6-680	-15 +115 Shell Omala S4 WE 680	
	-25 40					-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	Carter SY 220
	Standard -15 80	CLP PG - PSS	VG 680 ¹⁾						-15 +115 Klübersynth GH 6-680		
	-25 40								-25 +100 Klübersynth GH 6-220		

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


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

01 751 17 04
63085461.17

SEW
EURODRIVE

EN Page 12/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	b bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
S.. HS.. 	Standard -15 60	Ex CLP HC	VG 460			-20 +110 Optigear Synthetic PD 460	-15 +100 Renolin Unisyn CLP 460	-20 +105 Mobil SHC 634	-15 +105 Klübersynth GEM 4-460 N	-15 +105 Shell Omala S4 GX 460	-15 +105 Carter SH 460
	-30 30		VG 150 ³⁾			-30 +75 Optigear Synthetic PD 150	-30 +70 Renolin Unisyn CLP 150	-30 +75 Mobil SHC 629	-30 +70 Klübersynth GEM 4-150 N	-30 +75 Shell Omala S4 GX 150	-30 +70 Carter SH 150
	-35 20		VG 68				-35 +50 Renolin Unisyn CLP 68	-40 +55 Mobil SHC 626		-40 +50 Shell Omala S4 GX 68	
	-40 0		VG 32				-40 +30 Renolin Unisyn OL32	-40 +30 Mobil SHC 624			-40 +30 Dacnis SH 32
	Standard -15 60	Ex CLP HC - PSS	VG 460					-20 +105 Mobil SHC 634			
	-30 30		VG 150 ³⁾					-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

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

01 751 17 04
63085461.17



EN Page 13/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
S... HS... 	Standard -15 40	CLP HC - NSF H1  	VG 460			-15 +85	-15 +90	-15 +85	-15 +90			
						Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460	Klüberoil 4UH1-460 N			
						SEW070040313						
						Cassida Fluid GL 220	Optileb GT 220	Cassida Fluid GL 220	Klüberoil 4UH1-220 N			
		SEW070040213										
		Cassida Fluid HF 68	Optileb HY 68	Cassida Fluid HF 68	Klüberoil 4UH1-68 N							
		Cassida Fluid HF 32	Optileb HY 32	Cassida Fluid HF 32	KlüberSummit HySyn FG 32							
	Standard -15 40	CLP HC - NSF H1 - PSS  	VG 460			-15 +90						
							Optileb GT 460					
							SEW070040313					
		VG 220			-25 +70							
					Optileb GT 220							
				SEW070040213								
		E	VG 460				-20 +80		-20 +80			
							Plantogear 460 S		Klüberbio CA2-460			
				S2				S2				

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

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

01 751 17 04
63085461.17

SEW
EURODRIVE





EN Page 14/18
EGT-TD 05.02.2019

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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 W.. HW..	Standard -20 60	 CLP PG	VG 460	-20 +115 SEW GearOil Poly 460 W E ¹ SEW 070040313							
	-20 60	 CLP PG NSF H1 (- PSS)	VG 460	-20 +115 SEW GearOil Poly 460 H1 E ¹					-20 +115 Klübersynth UH1 6-460		
	-40 10	 API GL5	SAE 75W90 (-VG 100)						-40 +65 Mobil Synth Gear Oil 75 W90		

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

6. PS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 PS.F	Standard -25 80	 CLP PG (- PSS)	VG 220	-25 +100 SEW GearOil Poly 220 E ¹ SEW 070040313					-25 +100 Klübersynth GH 6-220		
	-20 80	 CLP PG NSF H1 (- PSS)	VG 460	-20 +100 SEW GearOil Poly 460 H1 E ¹ SEW 070040313					-20 +100 Klübersynth UH1 6-460		
	-40 0	 CLP HC	VG 32						-40 +50 Mobil SHC 624		

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

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

01 751 17 04
63085461.17



EN Page 15/18
EGT-TD 05.02.2019

7. PS.C gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 PS.C	Standard -15 40	CLP	VG 220	-15 +80 SEW GearOil Base 220 E ¹				-15 +80 Mobilgear 600 XP 220			
				SEW 070040313				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.

8. BS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 BS.F	Standard -25 60	 CLP PG (- PSS)	VG 220	-25 +100 SEW GearOil Poly 220 E ¹					-25 +100 Klübersynth GH 6-220		
				SEW 070040313							
	-20 60	 CLP PG NSF H1 (- PSS)	VG 460	-20 +100 SEW GearOil Poly 460 H1 E ¹					-20 +100 Klübersynth UH1 6-460		

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

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

01 751 17 04
63085461.17

SEW
EURODRIVE

EN Page 16/18
EGT-TD 05.02.2019

9. MGF gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE				Mobil			
MGF..2 MGF..4 	Standard -25 60	CLP HC	VG 220								
	-30 50	VG 150									
MGF..2 MGF..4 	Standard -25 60	CLP HC - PSS	VG 220								
	-30 50	VG 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

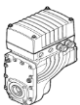



R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

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

01 751 17 04
63085461.17



EN Page 17/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
MGF..2 MGF..4 	Standard -15 40	CLP HC - NSF H1 	VG 460		-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460		-15 +105 Klüberoil 4UH1-460 N			
	Standard -15 40	CLP HC - NSF H1 - PSS 	VG 460		-15 +100 Optileb GT 460							
	Standard -25 30	CLP HC - NSF H1 	VG 220		-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220		-25 +80 Klüberoil 4UH1-220 N			

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







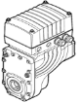
R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS-F/ PS-C/ BS-F/ MGF

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

01 751 17 04
63085461.17

SEW
EURODRIVE

EN Page 18/18
EGT-TD 05.02.2019

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE				Mobil			
MGF..1- DSM-C MGF..2 /PG MGF..4 /PG 	Standard -25 60	CLP HC (- PSS)	VG 220					-25 +110 Mobil SHC 630			
	-30 50		VG 150					-30 +100 Mobil SHC 629			
	Standard -15 40	CLP HC - NSF H1 (-PSS)	VG 460				-15 +100 Optileb GT 460 SEW070040313				
	-25 30		VG 220				-25 +80 Optileb GT 220 SEW070040313				

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