

LUBRICATION OIL LIST FOR STERN TUBE SEALS

The SIMPLEX seal is fitted with sealing rings of NBR (Perbunan) or FKM (Viton) depending on the operating conditions.

The following list is a recommendation list regarding stern tube seals only. It is inapplicable to the behaviour with regards to gears, clutches, roller bearings or other components of the propulsion system.

The technical data has been provided by the oil companies.

The suitable sealing ring material is given for every oil listed and marked correspondingly "x".

Oils marked with " * " have to be used in consultation with SKF Marine GmbH only due to restriction in application.

Oils marked with " ** " are, in particular, environmentally friendly lubricants. The usage is currently limited, therefore the oils should be used in consultation with SKF Marine GmbH only.

We ask to inform us if oils / lubricants which are not listed are to be used. We shall test these lubricants accordingly.

LUBRICATION OIL LIST	for use with		SAE	Visc. cSt. 40°C	General use				
	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Agip									
Acer 100	x	x		100			x		x
Blasia 100	x	x		100		x			
Cladium 120 SAE30	x	x	30	108	x				
Cladium 400 SAE30		x	30	108	x				
Cladium 400 SAE40		x	40	160	x				
Cladium 50 SAE30		x	30	108	x				
Ote 68		x		64			x		x
Ote 80		x		80			x		x
BP									
Bartran 320		x		318			x		
Bartran 460		x		460			x		
Bartran HV 68	x	x		66			x		
Bartran HV 100	x	x					x		
Energol DL-MP 30	x	x	30	110	x				
Energol DL-MP 40	x	x	40	148	x				
Energol DS 3-153	x	x	30	110	x				
Energol DS 3-154	x	x	40	148	x				
Energol GR-XP 68	x	x		68		x			
Energol GR-XP 100	x	x		100		x			
Energol GR-XP 150	x	x		150		x			
Energol GR-XP 220	x	x		220		x			
Energol GR-XP 320	x	x		320		x			
Energol GR-XP 680	x	x		680		x			
Energol HLP 46	x	x		46			x		
Energol HLP 68	x	x		69			x		
Energol HLP 100	x	x		96			x		
Energol THB 68	x	x		68					x
Energol THB 100	x	x		96					x
Energol IC-HFX 203	x	x	30	102	x				
Energol IC-HFX 204	x	x	40	138	x				
Energol IC-HFX 303	x	x	30	110	x				
Energol IC-HFX 304	x	x	40	148	x				

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LUBRICATION OIL LIST	for use with		SAE	Visc. cSt. 40°C	General use				
	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Energol IC-HFX 403	x	x	30	110	x				
Energol IC-HFX 404	x	x	40	148	x				
Energol IC-HFX 504	x	x	30	148	x				
Energol OE-HT 30	x	x	30	110	x				
Energol SHF HV 68	x	x		68			x		
Caltex (Chevron Corp.)									
Meropa 100	x	x		100		x			
Meropa Lubricant 150	x	x		150		x			
Regal Marine 77	x	x		77					x
Regal Oil R&O 100	x	x		96					x
Regal Oil R&O 68	x	x		66					x
RPM Delo 100 Oil 20-20W	x	x	20/20W	61	x				
RPM Delo 100 Oil 30	x	x	30	94	x				
RPM Delo 300 Oil 20-20W	x	x	0/20W	60	x				
RPM Delo 300 Oil 30	x	x	30	97	x				
Delo 1000 Marine Oil 30	x	x	30	110	x				
Delo 2000 Marine Oil 30	x	x	30	102	x				
Delo 3000 Marine Oil 30	x	x	30	107	x				
Delo 3000 Marine Oil 40	x	x	40	152	x				
Castrol									
215 MX Super	x	x	30	103	x				
220 MX Super	x	x	40	136	x				
Alpha SP 68	x	x		68		x			
Alpha SP 100	x	x		100		x			
Alpha SP 150	x	x		150		x			
Alpha SP 220	x	x		220		x			
Alpha SP 320	x	x		320		x			
Alpha ZN 100	x	x		100		x			
Alpha ZN 150	x	x		150		x			
Alpha ZN 68	x	x		68		x			
Coral 2 * (Emergency oil)	x	x		222					x
Hyspin AWH - M 68	x	x		68			x		
Hyspin AWH - M100	x	x		100			x		

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Castrol CDX 30	x	x	30	103	x				
Marine MLC 30	x	x	30	107	x				
Marine MLC 40		x	40	139	x				
Castrol MPX 30	x	x	30	103	x				
Nato 0-274	x	x	30	101	x				
Perfecto T 68	x	x		68					x
Perfecto T 100	x	x		96					x
RX Super 30	x	x	30	108	x				
MHP 153	x	x	30	102	x				
MHP 154	x	x	40	136	x				
TLX Plus 203	x	x	30	102	x				
TLX Plus 204	x	x	40	140	x				
TLX Plus 303	x	x	30	103	x				
TLX Plus 304	x	x	40	139	x				
TLX Plus 403	x	x	30	103	x				
TLX Plus 404	x	x	40	139	x				
TLX Plus 504	x	x	40	139	x				
TLX Plus 554	x	x	40	139	x				
HLX 30	x	x	30	100	x				
BioStat 100 **		x		100				x	
Chevron (FAMM distribution)									
Delo 1000 Marine 30	x	x	30	94	x				
Delo 1000 Marine 40	x	x	40	135	x				
Delo 2000 Marine Oil	x	x	30	106	x				
Delo 3000 Marine Oil	x	x	30	104	x				
Gear Compound EP 100	x	x		100		x			
Gear Compound EP 150	x	x		150		x			
Mechanism LPS 46		x		46			x		
Mechanism LPS 68	x	x		68			x		
Turbine Oil GST 100	x	x		100					x
Turbine Oil GST 68	x	x		68					x
Veritas 800 Marine 30	x	x	30	114	x				
Pinnacle Marine Gear 220		x		220		x			
Taro 20 DP 30X	x	x	30		x				
Taro 20 DP 40X	x	x	40		x				

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Taro 30 DP 30X	x	x	30		x				
Taro 30 DP 40X	x	x	40		x				
Taro 40 XL 40X	x	x	40		x				
Taro 50 XL 40X	x	x	40		x				
ExxonMobil (ex Esso and Mobil Oil)									
Essolube X 3 SAE 30	x	x	30	103	x				
Essolube X 3 SAE40	x	x	40	149	x				
Exxmar 12 TP 30	x	x	30	110	x				
Exxmar 12 TP 40	x	x	40	146	x				
Exxmar 30 TP 30	x	x	30	110	x				
Exxmar 30 TP 40	x	x	40	146	x				
Exxmar XA	x	x	30	110	x				
Nuto H 68	x	x		68			x		
Spartan EP 100	x	x		100		x			
Spartan EP 150	x	x		150		x			
Spartan EP 220	x	x		220		x			
Spartan EP 320		x		320		x			
Stermar 220		x		220					x
Teresstic 32	x	x		32			x		
Teresstic 68	x	x		68			x		
UNIVIS N 100	x	x	100	98			x		
Mobil Delvac 1330	x	x	30	106	x				
Mobil Delvac 1340	x	x	40	145	x				
Mobil Delvac 1630	x	x	30	90	x				
Mobil Delvac 1640	x	x	40	132	x				
Mobil Delvac MX15W-40	x	x		123	x				
Mobil DTE 15M	x	x		46			x		
Mobil DTE 16M	x	x		68			x		
Mobil DTE 18M	x	x		100			x		
Mobil DTE 19M	x	x		150			x		
Mobil DTE Oil Extra Heavy	x	x		146					x
Mobil DTE Oil Heavy	x	x		95					x
Mobil DTE Oil Heavy Medium	x	x		65					x
Mobil DTE Oil BB	x	x	50	218					x
Mobil DTE 10 Excel 46	x	x		46			x		

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Product Name									
Mobil DTE 10 Excel 68	x	x		68			x		
Mobil DTE 10 Excel 100	x	x		100			x		
Mobil DTE 10 Excel 150	x	x		150			x		
Mobilgard M50	x	x	40	142	x				
Mobilgard 300	x	x	30	111					x
Mobilgard 312	x	x	30	108	x				
Mobilgard 340	x	x	30	106	x				
Mobilgard 412	x	x	40	142	x				
Mobilgard M 440	x	x	40	143	x				
Mobilgard M 430	x	x	30	143	x				
Mobilgard M 330	x	x	30	112	x				
Mobilgard 570	x	x	50	229					x
Mobilgard ADL 40	x	x	40	141	x				
Mobil Sterntube Lubricant * (Emerg. oil)		x		385					x
Mobilgear 626	x	x		68		x			
Mobilgear 627	x	x		100		x			
Mobilgear 627	x	x		100		x			
Mobilgear 629	x	x		150		x			
Mobilgear 630	x	x		220		x			
Mobilgear 600 XP 68	x	x		68		x			
Mobilgear 600 XP 100	x	x		100		x			
Mobilgear 600 XP 150	x	x		150		x			
Mobilgear 600 XP 220	x	x		220		x			
Mobilgear 600 XP 320	x	x		320		x			
Mobilgear SHC XMP220 *		x		220		x			
Mobilgear SHC XMP320 *		x		320		x			
Mobil Vacuoline 528	x	x		150					x
Fuchs Europe Schmierstoffe									
Renolin CLP 220 *	x	x		220		x			
Renolin CLP 320 *	x	x		320		x			
Fuji Kosan									
Fukkol AD Turbine 68	x	x		68					x
Fukkol Hydrol X-100	x	x		100			x		

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Fukkol Marine 312	x	x	30	106	x				
Fukkol Marine 320	x	x	30	105	x				
Fukkol SAE ACE 307	x	x	30	107					
General Sekiyu K.K.									
See ExxonMobil Products									
Gulf Oil Marine Ltd.									
GulfSea SuperBear 3008	x	x	30		x				
Idemitsu									
Daphne Super Gear Oil	x	x		150		x			
Ina Maziva Rijeka Croatia									
Gorgonela S 30	x	x	30	106	x	x			x
Gorgonela S 40	x	x	40	147	x	x			x
Rubella 30	x	x	30	107	x	x			x
Rubella 40	x	x	40	148	x	x			x
Sagartia 30	x	x	30	106	x	x			x
Sagartia 40	x	x	40	147	x	x			x
Turbo 32	x	x		32					x
Turbo 46	x	x		46					x
Irving Oil									
Marine LSX 530	x	x	30	103	x				
Marine MTX 1230	x	x	30	107	x				
Marine MTX 1240		x	40	139	x				
Marine MTX 2030	x	x	30	100	x				
Marine MTX 2040	x	x	40	140	x				
Marine MTX 3030	x	x	30	103	x				
Marine MTX 3040	x	x	40	139	x				
Marine MTX 4030	x	x	30	103	x				

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Product Name									
Marine MTX 4040	x	x	40	139	x				
Marine MTX 5040	x	x	40	139	x				
Kendall Noviol b.v.									
F-L Select Motor Oil	x	x	30	103	x				
F-L Select Motor Oil 20W20	x	x	20/W20	68,2	x				
Kenoil R&O AW 68	x	x	20/W20	67,6			x		
Super-D III Series 3 Motor Oil	x	x	30	106,4	x				
Kyodo Oil Co. / Japan Energy Corp.									
See TOTAL LUBMARINE / INDUSTRIE									
Klüber									
Klübersynth GEM 4-320N *		x		320		x			
Klüberbio EG 2-100 **		x		100		x		x	
Klüberbio EG 2-150 **		x		150		x		x	
Klüberbio RM 2-100 **		x		100				x	x
Klüberbio RM 2-150 **		x		150				x	x
Lukoil									
Lukoil Navigo TPEO 40/40	x	x	40		x				
Lukoil Navigo 6 SO	x	x	30		x				
MAN Diesel & Turbo SE									
PrimeServLube Bio P 1000 **		x	30	100				x	x
NESTE									
Vaihteisto 220 EP	x	x		220		x			
Vaihteisto 320 EP	x	x		305		x			
Nippon Oil Co.									

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Diamond Marine T 104		x	30	96	x				
Diamond Marine T 203 A		x	40	145	x				
Diamond Marine T 303 A	x	x	30	95,5	x				
Diamond Marine T 304 A		x	40	141	x				
MDL PS 30 (ren. Super MDL PS 30)	x	x	30	106					
MDL HDS 30 (ren. Super MDL HDS 30)	x	x	30	109					
Petrobras Distribuidora									
Lubrax MD-300 SAE 30	x	x	30	113	x				
Lubrax MD-400 SAE 30	x	x	30	111	x				
Marbrax CAD-308	x	x	30	103	x				
Marbrax CAD-65-OF	x	x	30	114	x				
Marbrax CCD-310	x	x	30	109	x				
Marbrax CCD-320	x	x	30	109	x				
Marbrax CCD-330	x	x	30	114	x				
Marbrax TR-86	x	x		111					x
Marbrax HV-68	x	x		68			x		
Petro-Canada Lubricants									
Duron 30	x	x	30		x				
Reginol									
Gear GI 1	x	x	80	142		x			
Hykraft 150	x	x		137			x		
Hykraft 68		x	20	64			x		
Industrygear EP 100		x		99		x			
Shell									
Argina S 30		x	30	104	x				
Argina S 40		x	40	139	x				
Argina T 30	x	x	30	104	x				
Argina T 40	x	x	40	139	x				
Argina T 40	x	x	40	139	x				

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LUBRICATION OIL LIST	for use with		SAE	Visc. cSt. 40°C	General use				
	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Argina X 40	x	x	40	135	x				
Arginia XL 40	x	x	40	139	x				
Gadina 30	x	x	30	104	x				
Gadina 40	x	x	40	139	x				
Gadina AL30	x	x	30	101	x				
Gadina AL40	x	x	40	138	x				
Melina 30	x	x	30	104	x				
Melina 40	x	x	40	145	x				
Melina S 30	x	x	30	104	x				
Omala S2 G 68 (ren. Omala 68)	x	x		68		x			
Omala S2 G 100 (ren. Omala 100)	x	x		100		x			
Omala S2 G 150 (ren. Omala 150)	x	x		150		x			
Omala S2 G 220 (ren. Omala 220)	x	x		220		x			
Omala S2 G 320 (ren. Omala 320)		x		320		x			
Rimula R3+ SAE30	x	x	30	118	x				
Sirius 15W-40		x	40	101	x				
Rimula X 15W-40	x	x	40	105	x				
Sirius X 30	x	x	30	101	x				
Sirius X 40	x	x	40	139	x				
Strombus MP * (Emergency oil)		x		273					x
Tellus S2 M 100 (ren. Tellus 100)	x	x		100			x		
Morlina S2 B 46 (ren. Morlina 46)		x		46			x		
Morlina S2 B 100 (ren. Morlina 100)		x		100			x		
Tellus S2 V 68 (ren. Tellus T 68)	x	x		68			x		
Tellus S2 V 100 (ren. Tellus T 100)	x	x		100			x		
Turbo T 46	x	x		49					x
Turbo T 68	x	x		63					x
Turbo T 78	x	x		76					x
Vitrea 68	x	x		68					x
Vitrea 100	x	x		100					x
Vitrea 220		x		220					x
Showa Shell Sekiyu K.K.									
See Shell Products									

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Product Name									
Statoil									
Statoil Sternway 220		x		220					x
Statoil Loadway EP 150	x	x		150		x			
Statoil Loadway EP 100	x			100		x			
Statoil Loadway Marine 68	x	x		68		x			
Statoil Loadway Marine 100	x	x		100		x			
Statoil Loadway Marine 150	x	x		150		x			
Statoil HydraWay HMA 68	x	x		70			x		
Statoil HydraWay HMA 100	x	x		100			x		
Statoil MarWay 1030	x	x		106	x				
Statoil MarWay 1040	x	x		137	x				
Statoil Sternway Bio 100 **		x		100				x	x
Teboil									
Teboil Ward L10T	x	x	30	110	x				
Terrosolve									
EnviroLogic 3068 **		x		68			x	x	
EnviroLogic 3100 **		x		100			x	x	
Texaco (FAMM distribution)									
Meropa 100	x	x		95		x			
Meropa 150		x		142		x			
Meropa 220	x	x		209		x			
Meropa 320	x	x		304		x			
Meropa 460		x		437		x			
Rando HD 68	x	x		68			x		
Regal R&O 100	x	x		92					x
Regal R&O 68	x	x		68					x
Taro 30 DP	x	x	30	99	x				
Taro 40 DP	x	x	40	145	x				
Taro 16 XD	x	x	40	139	x				
Taro 40 XL	x	x	40	145	x				
Ursa Oil ED 30	x	x	30	97	x				

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
Ursa Oil ED 40	x	x	40	173	x				
Ursa Super Plus 30	x	x	30	102	x				
Ursa Super Plus 40	x	x	40	160	x				
TOTAL LUBMARINE (ex Elf Marine)									
Atlanta Marine 30	x	x	30	105	x				
Atlanta Marine D 3005	x	x	30	105	x				
Aurelia TI 3030	x	x	30	110	x				
Aurelia TI 3040	x	x	30	110	x				
Aurelia TI 4030	x	x	40	140	x				
Aurelia TI 4040	x	x	40	140	x				
Aurelia TI 4055	x	x	40	140	x				
Aurelia XL 3030	x	x	30	110	x				
Aurelia XL 3040	x	x	30	110	x				
Aurelia XL 4030	x	x	40	140	x				
Aurelia XL 4040	x	x	40	140	x				
Bioneptan 100 **		x		100				x	x
Disola M 3015	x	x	30	110	x				
Disola M 4015	x	x	40	145	x				
Disola M 3020	x	x	30	110	x				
Disola M 4020	x	x	40	140	x				
Disola MT 30	x	x	30	110	x				
Disola MT 40	x	x	40	139	x				
Preslia 100 (ren. Turbine T 100)	x	x	30	95					x
Preslia 68 (ren. Turbine T 68)	x	x	20	71					x
Epona Z 150 (ren. Elf Epona Z 150)	x	x		148		x			
TOTAL INDUSTRIE									
Rubia H 30	x	x	30	100	x				
Rubia H 40	x	x	40	150	x				
Rubia S 30	x	x	30	100	x				
Rubia S 40	x	x	40	155	x				
Biohydran TMP 100 **		x		100			x	x	
Vickers Leeds									
BIOGEAR XP 68 **		x		68		x		x	

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	NBR (Perbunan)	FKM (Viton)			Engine Oil	Gear Oil	Hydraulic Oil	Bio Oil	Other
BIOGEAR XP 100 **		x		100		x		x	
ECOSURE SMX 68 **		x		68				x	x
ECOSURE SMX 100 **		x		100				x	x
Hydrox 21 (2024) * (Emergency oil)		x	50	273					x
Hydrox 550 (2018)	x	x	20/30	70					x
Hydrox 8 EP (2019)	x	x		105		x			
Hydrox EP 150		x		150		x			
Hydrox Bio 68 **		x	20	68				x	x
Hydrox Bio 100 **		x	30	100				x	x
Hydrox Bio 220 **		x	50	220				x	x
Wisura									
Dimol HD	x	x	30	105	x				
Panta SAE20	x	x	20	60	x				
Panta SAE30	x	x	30	100	x				
Panta SAE40	x	x	40	145	x				

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