

LUBRICANT LIST FOR STERN TUBE SEALS <FOR SEAL TYPE AX, CX, DX>

BASE OIL	OIL MAKER	OIL BRAND	SEAL RING MATERIAL
			FKM
MINERAL OIL	AEGEAN OIL	ALFAMAR 340, 440	OK
		ALFASYS 305	OK
	AGIP	CLADIUM 50 SAE 30	OK
		CLADIUM 120 SAE 30, 40	OK
		CLADIUM 300 SAE 30, 40	OK
		CLADIUM 400 SAE 30, 40	OK
		OTE 68, 80	OK
		ACER 100	OK
		BP	ENERGOL IC-HF 304, 504
	ENELGOL DL-MP 30		OK
	ENERGOL OE-HT 30		OK
	ENERGOL THB 68, 100		OK
	ENERGOL IC-HFX 203, 204		OK
	ENERGOL IC-HFX 303, 304		OK
	ENERGOL IC-HFX 403, 404		OK
	ENERGOL IC-HFX 504, 554		OK
	CASTROL	MARINE CDX 30	OK
		MARINE MPX 30	OK
		MARINE MLC 30	OK
		215 MXD, 220 MXD	OK
		PERFECTO T-68, T-100	OK
		CORAL 2 [Only for emergency]	OK
		TLX Xtra 203, 204, 303, 304, 404	OK
		TLX 203 PLUS, 204 PLUS	OK
		TLX 303 PLUS, 304 PLUS	OK
		TLX 403 PLUS, 404 PLUS	OK
		TLX 504 PLUS, 554 PLUS	OK



: Approved oil.

REMARKS

1. Oils in this list were tested for compatibility with the seal material and approved for the application as stern tube lubricant.
2. Follow ship builder's recommendation for oil viscosity if it is specified for S/T bearing lubrication.
3. Oil list will be revised without notice.

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MINERAL OIL	CASTROL	MLC 40	OK
		MHP 153, 154	OK
	CHEVRON (TEXACO / CALTEX)	REGAL OIL R&O 68, 100	OK
		TARO DP 30, 40	OK
		TARO 20 DP 30, 40	OK
		TARO 30 DP 30, 40	OK
		TARO 20 DP 30X, 40X	OK
		TARO 30 DP 30X, 40X	OK
		DELO 1000 MARINE OIL 20, 30, 40	OK
		URSA SUPER LA 30, 40	OK
		VERITAS 800 MARINE 30	OK
		TARO XD 30	OK
		TARO 12 XP 30, XP30(2)	OK
		TARO 12 XP 40, XP40(2)	OK
		TARO 40 XL 40	OK
		TARO 40 XL 40X	OK
		TARO 50 XL 40X	OK
		TARO 60 XL 40X	OK
		GST 100, 150	OK
		CLARITY HYDRAULIC AW 100 (Environmentally Friendly Oil)	OK
	CPC	MARILUBE OIL AC-30 SP	OK
	COSMO	MARINE 3000, 3005, 3010	OK
		MARINE 3025, 3030, 3040	OK
		MARINE 4025, 4030, 4040	OK
		TURBINE SUPER 68, 100	OK
		EXXMAR 40TP 40	OK



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MINERAL OIL	EXXON (ESSO)	EXXMAR XA	OK
		EXXMAR 12TP 30, 40	OK
		EXXMAR X70	OK
		NUTO 68	OK
		NUTO H 68	OK
		TERESSO (TERESSTIC) 68, 77, 100	OK
	FINA	ALCANO 308	OK
	FUJI (FUKKOL)	SEA-ACE 307	OK
		MARINE 312	OK
		MARINE 3201	OK
		HYDROL X-100, X-150	OK
		AD TURBINE 68	OK
	GULF	MARINE ENGINE OIL 77	OK
		Gulfsea Power MDO 4012, 4015, 4020	OK
		HARMONY 53, 61	OK
		HARMONY 59 EP	OK
		HARMONY 54 AW	OK
		VERITAS V 9, 13	OK
		VERITAS SD 30	OK
		VERITAS HD V 13	OK
		VERITAS DPO 30, 40	OK
		VERITAS SELECT 30, 40, 353	OK
	GULF OIL MARINE	GULFSEA SUPERBEAR 3006, 3008	OK
		GULFSEA POWER 3030, 3040, 3055	OK
		GULFSEA POWER 4030, 4040, 4055	OK
		GULFSEA POWER MDO 3012, 3015, 3020	OK
		GULFSEA Hydraulic HVI Plus 100, 150	OK



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MINERAL OIL	GULF OIL MARINE	GULFSEA TURBINE OIL 100	OK
	IDEMITSU (DAPHNE)	TURBINE OIL 68, 83, 100	OK
		OIL 100	OK
		MARINE OIL SM 30	OK
		MARINE OIL SS 30	OK
		MARINE OIL SW 40	OK
		MARINE OIL SX 30	OK
		MARINE OIL SW 30	OK
		MARINE OIL SY 30	OK
	ENEOS Corporation	MARINE T 103, 104	OK
		MARINE T 203, 204	OK
		MARINE T 303, 304	OK
		MARINE T 403, 404	OK
		FBK OIL RO 100	OK
		FBK TURBINE 68, 100	OK
		MARINE S 30	OK
		DISOLA M 3010, 4010	OK
		DISOLA M 3015, 4015	OK
		DISOLA M 3020, 4020	OK
		AURELIA XL 3030	OK
		AURELIA XL 3040	OK
		RIX TURBINE 68, 100	OK
		ATLANTA MARINE D 3005	OK
	KYGNUS	DX-330	OK
	LENOL	NAVIGO 6 SO (SAE30)	OK
		LENOL 6 S 30	OK
		NAVIGO 6 CO (SAE30)	OK



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MINERAL OIL	LUBRICATION ENGINEERS	8430 MONOLEC GFS ENGINE OIL	
	MOBIL	DTE OIL HEAVY	
		DTE OIL HEAVY MEDIUM	
		DTE OIL EXTRA HEAVY	
		DTE 16M, 18M, 19M	
		MOBILGARD 300, 300C, 300HD, 312, 412, 450	
		MOBILGARD M330, M420, M430, M440	
		VOCO ENGINE SPECIAL	
		STERNTUBE LUBRICANT [Only for emergency]	
		DTE 10 EXCEL 68, 100, 150	
	PetroChina	DCC3008	
		DCC4008	
	SHELL	ARGINA S2 30, 40	
		ARGINA S3 30, 40	
		ARGINA S4 30, 40	
		ARGINA S5 40	
		ARGINA XL OIL 40	
		ARGINA S4X 40	
		GADINIA S3 30, 40	
		MELINA S OIL 30	
		MELINA OIL 30, 40	
		RIMULA OIL 30, 40	
		RIMULA R3+ 30, 40	
		TELLUS OIL 100	
		TELLUS S2 VX 68	
		TURBINE OIL EP 100	
		TURBO OIL T 68, 100	



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MINERAL OIL	SHELL	MORLINA S2 B 150	
	SK ENERGY	TURBINE OIL 68	
		SUPERMAR TURBINE	
		SUPERMAR AS	
	SINOPEC	MARINE SYSTEM OIL 3005	
		TPEO 4030	
		TPEO 4040	
	Total Energies Lubmarine	AURELIA XL 3030	
		AURELIA XL 3040	
		AURELIA TI 3040, 4040	
		PRESLIA 68, 100	
		PERFORMANCE 2B 20W, 30, 40	
		PERFORMANCE 3C 30	
		PERFORMANCE HP 30	
		ELPOLNA DS 68, 100	
		DISAL HD1 30	
		DISAL HD2 30W	
	ATLANTA MARINE D 3005		
	VICKERS	HYDROX 21 (VG220) [Only for emergency]	
		HYDROX 550 (VG68)	
		HYDROX EP 550	
		HYDROX 8EP (VG100)	
	YUKONG	SUPERMAR AS	
	PERTAMINA	MEDRIPAL 307	
	HYUNDAI OIL	XTEER TURBINE VG 68, 100	
		XTEER HVI VG 68, 100	
		XTEER SO 3005	



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