

1) PRINCIPAL DIMENSION

LENGTH	O.A.	APP. 183.00M
LENGTH	3.F.	173.90M
BREADTH	MLD.	32.20M
DEPTH	MLD.	19.15M
DRAFT	MLD. (DESIGN)	11.00M
DRAFT	MLD. (SCANTLING)	13.13M

FOR HULL NO. S1220/1223/2022/2023/1203/1204

2) CLASSIFICATION : DET NORSKE VERITAS(DNV)

+1A1 Tanker for Oil and Chemicals ESP. Ship type 3. a2.b3.c3.v2.
f2. str 0.1 ED.T-MCN.VCS-2(Without vapour processing unit)

FOR HULL NO. S1219/1224/2024/2034

2) CLASSIFICATION : BUREAU VERITAS(BV)


I + Hull + mach. Oil tank-Chemical tanker ESP. Unrestricted Navigation.
+Veritas-Hull.+AUT-UMS.Manshaft.In water survey.VCS.ETA.IMO ship type3

3) REGISTRATION : HONG-KONG flag

() SHEETS WITH A COVER

stx	HULL NO.	S1219/20/23/24/2022/23/1203/04/2024/2034		
	TYPE	51,000 DWT CRUDE/PRODUCT OIL AND CHEMICAL TANKER		
MANAGER:	TITLE			
CHECKED:	HULL PIPING EQUIPMENT LIST			
DRAWN:	780K PYOUNG SU			
TEL. NO.	055) 548- 1624			
DEPT	OUTFITTING	NAVAL	SCALE	DATE
	DESIGN TEAM		NCNE	
		DWG NO.	REV. NO.	
		2F241005PB	A	
STX Shipbuilding Co., Ltd.				

PART : HULL PIPING

	HULL PIPING EQUIPMENT LIST						SHIP No.	1 / 6
							HULL N o	S-118218311219120123124 s-20221231241120310412034
							Dwg. No.	2F241005PB
NO.	EQUIPMENT NAME	BRIEF SPEC.	Q'TY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO. (THE PERSON IN CHARGE)	WEIGHT	REMARK
CARGO HANDLING SYSTEM								
1)	CARGO OIL PUMP FOR NO. 1~6 C.O.T(P&S)	600M ³ /H x 125MLC S.G 0.75 (SUB.,CEN.,HYD.DRI.)	12	SD200-- 6DTHH200 -C375-S	FRAMO	NORWAY TEL) 47 55 99 96 00 FAX) 47 55 99 97 84 service@framo.no	1,358KG/SET (EMPTY)	
2)	SLOP PUMP FOR SLOP TK (P&S)	300M ³ /H x 125MLC S.G 0.75 (SUB.,CEN.,HYD.DRI.)	2	SD150-- 5DTHH107 -B325-S			820KG/SET (EMPTY)	
3)	PORTABLE CARGO OIL PUMP	150M ³ /H x 50MLC S.G 1.0 (SUB.,CEN.,HYD.DRI.)	1	TK150 DHH56 -A225-S			183KG	
4)	RESIDUAL PUMP	20M ³ /H x 80MLC S.G 1.0 (GEAR, HYD. DRI.)	1	MHH23--			70KG	
5)	PORTABLE DIAPHRAGM PUMP	ABT.10M ³ /H (AIR DRIVEN)	1	H1590	DAE HO	KOREA TEL) 82 55 328 0030 FAX) 82 55 328 0031 daeho@daehoinc.com	38.6KG	
2	BALLAST SYSTEM							
1)	WATER BALLAST PUMP	750M ³ /H x 25MLC S.G 1.025 (SUB.,CEN.,HYD.DRI.)	2	SB300-- 3MHH200 -A405-F	FRAMO	NORWAY TEL) 47 55 99 96 00 FAX) 47 55 99 97 84	985KG/SET (EMPTY)	
2)	BALLAST EDUCTOR	100M ³ /H x 15MWC	1	125Ax150A x200A	KIWON	KOREA TEL) 82 55 337 3300 FAX) 82 55 337 3305 kiwon@kiwon.com	160KG	
3	TANK CLEANING SYSTEM							
1)	TANK CLEANING PUMP	120M ³ /H x 120MLC S.G 1.025 (DECK.,SCREW.,HYD.DRI.)		MA200/150 MHH80-A300-F	FRAMO	NORWAY TEL) 47 55 99 96 00 FAX) 41 55 99 97 84 service@framo.no	245KG	


stx		HULL PIPING EQUIPMENT LIST					SHIP No.		2 / 6	
				HULL No.				S-1182/83/1219/20/23/24		
								S-2022/23/24/1203/04/2034		
						Dwg. No.		2F241005PB		
NO.	EQUIPMENT NAME	BRIEF SPEC.	Q'TY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO. (THE PERSON IN CHARGE)	WEIGHT	REMARK		
	2) TANK CLEANING HEATER	120M ³ /H (20℃~ 75℃) HORIZONTAL TYPE	1	TCH-50-01	DONG HWA	KOREA TEL) 82 51 970 1070 FAX) 82 51 970 1071 iho@dhamail.dh.co.kr	1,340KG (EMPTY)			
	3) FIXED TYPE TANK CLEANING MACHINE	PROGRAMMABLE SINGLE NOZZLE	14	Scanjet SC301	Scanjet	SWEDEN TEL) 46 31 338 75 30 FAX) 46 31 338 75 40 aftersales@scanjet.se	60KG/SET			
4	INERT GAS & CARGO TANK VENTING SYSTEM									
	1) INERT GAS GENERATOR	CAPA. 4,500M ³ /H	1	-			2800KG			
	2) DECK WATER SEAL	CAPA. 4,500 M ³ /H SET. : 2500 mm WG	1	DISPLACEMENT		NORWAY TEL) 47 69 27 99 00 FAX) 47 69 25 45 78 www.hanworthy.com	1000KG (EMPTY)			
	3) COMBUSTION AIR BLOWER BLOWER MOTOR(DRIVE)	CAPA. 4,500M ³ /H 3550 RPM 3565 RPM	2	NYBORG ABB	HAMWORTHY		1360KG (OPER.)			
	5) P/V BREAKER	SET.PRESS : 2160mmWC SET.VACUUM:- 700mmWC	1	-			500KG (EMPTY)			
	7) HIGH VELOCITY P/V VALVE WITH GAS FREE COVER	SET. PRESS.: 0.18 BAR SET VACUUM : -0.035 BAR FOR CARGO SLOP TK. RESIDUAL TK.	12 3	HS-ISO TYPE2388 HS-ISO-TYPE2388	PRES-VAC	DENMARK TEL) 45 48 17 40 55 FAX) 45 48 17 17 88 presvac@pres-vac.com	60KG/SET 35KG/SET			

stx		HULL PIPING EQUIPMENT LIST						SHIP No.	3 / 6
NO.	EQUIPMENT NAME	BRIEF SPEC.	Q'TY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO. (THE PERSON IN CHARGE)	WEIGHT	REMARK	
5	STEAM & CONDENSATE SYSTEM								
	1) CONDENSATE OBSERVATION TANK	VERTICAL, CYLINDRICAL /ELLIPSOIDAL HEAD	1	VERTICAL CYLINDRICAL TYPE	SEAYANG	KOREA TEL) 82 51 831 9125 FAX) 82 51 831 9331 seayangmetal@korea.com	410KG	DRY WEIGHT	
6	FOAM SYSTEM								
	1) FOAM TANK	TANK CAPA.: 8,500L	1	-	NK CO., LTD.	KOREA TEL) 82 51 204 2211 FAX) 82 51 204 2215 www.nkcl.com	1,800KG (EMPTY) 10,080KG (FULL)	DRY WEIGHT	
	2) FOAM LIQUID PUMP	15.3M ³ /H at 10 BAR AC 440V, 60HZ, 3 PHASE	1	CR16-60			85KG		
	3) FOAM PROPOTIONER	MAX. 13,000L/MIN	1	PRS 80/200			48KG		
	4) FOAM MONITOR	7,500L/MIN	6	SFS-150			100KG/SET		
7	FIRE/WASH DECK SYSTEM								
	1) BILGE, FIRE & G/S PUMP	275 M ³ /H x 100 MTH EMD., VER., CEN.	2	SVS200F	SHAN SHIN	KOREA TEL) 82 51 727 5300 FAX) 82 51 727 5305 www.sspump.com	1,580KG/ SET(DRY)		
	2) EMERGENCY FIRE PUMP	72 M ³ /H x 70MTH 440V, 60HZ. (VER., VACUUM PUMP SELF PRIMING)	1	VF 125			471KG (DRY)		

stx		HULL PIPING EQUIPMENT LIST					SHIP No.	4 / 6
NO.	EQUIPMENT NAME	BRIEF SPEC.	QTY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO. (THE PERSON IN CHARGE)	WEIGHT	REMARK
8	HIGH PRESSURE CO2 FIRE EXTINGUISHING SYSTEM							
	1) 45KG CO2 CYLINDER & CYLINDER VALVE ASS'Y	STORAGE PRESSURE 58 BAR	140	JIS 68241	NK CO., LTD.	KOREA TEL) 82 51 204 2211 FAX) 82 51 204 2215 www.nkcf.com	120KG/SET	
9	BILGE SYSTEM							
	1) BILGE EDUCTOR FOR BOSUN STORE & B.T.ROOM	40A x 50A X 65A	2	KW-ER-05021	KIWON	KOREA TEL) 82-55-337-3300 FAX) 82-55-337-3305 kiwon@kiwon.com	15KG/SET	
10	C.O.TK HAND DIPPING SYSTEM							
	1) VAPOR CONTROL VALVE	USED FOR U.T.I & CARGO SAMPLING UNIT (2")	15	C2-SS-W	TS TANKSYSTEM SA	SWITZERLAND TEL) 41 26 91 91 500 FAX) 41 26 91 91 505 www.tanksystem.com	5.2KG/SET	
	2) DECK VALVE	USED FOR PORTABLE HAND DIPPING UNIT (1")	29	C1-SS-W			1.8KG/SET	
	3) PORTABLE U.T.I	CLOSED TYPE	2	UTImeter Gtex Chem, SS1-Q2			5.1KG	
	4) PORTABLE SAMPLING UNIT	CLOSED TYPE SAMPLING UNIT	1	Sampler GTX Chem			5.7KG	
	5) PORTABLE HAND DIPPING UNIT	CLOSED TYPE	1	HERMETIC DIP 2			3.5KG	

PART : HULL PIPING

stx	HULL PIPING EQUIPMENT LIST						SHIP No.	5 / 6	
							HULL No.	S-118218311219120123124 s-20221231241120310412034	
							Dwg. No.	2F241005PB	
NO.	EQUIPMENT NAME	BRIEF SPEC.	Q'TY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO. (THE PERSON IN CHARGE)	WEIGHT	REMARK	
11	OIL DISCHARGE MONITORING SYSTEM								
	1) COMPUTER MODULE	-	1	SMART-ODME	PAN ASIA	KOREA TEL) 82 51 831 1010 FAX) 82 51 831 1399 www.pan-asia.co.kr	4KG		
	2) ZENNER SOLENOID MODULE	-	1				10KG		
	3) VPC BOARD	-	1				35KG		
	4) FLOW TRANSMITTER	-	1						
12	HYDRAULIC OIL SYSTEM – FRAMO CARGO SYSTEM								
	1) HYDRAULIC POWER PACK	EQUIPPED WITH 2 SETS OF EL. MOTORS (EACH 420KW) AND 2 SETS OF DIESEL HYD. UNIT (EACH 420KW)	1	CCC 500-4	FRAMO	NORWAY TEL) 47 55 99 96 00 FAX) 47 55 99 97 84 service@framo.no	17,500KG		
	2) HYD. OIL TRANSFER UNIT	-	1	-			25KG	DRY WEIGHT	
13	VALVE REMOTE CONTROL SYSTEM								
	1) HYDRAULIC POWER UNIT	WORKING : 105 BAR NOM.TANK VOLUME : 100L	1	HPU100-90L/P3	DAMCOS (DANFOSS MARINE SYSTEMS)	KOREA TEL) 82 51 602 55 55 FAX) 82 51 602 55 53 www.damcos.co.kr	500KG	EXCL. OIL	
	2) HYD ACTUATOR	ACTUATOR	33 6	BRC 012A1 BRC 022A1			TOTAL ABT.770K G		
	3) SOLENOID VALVE CABINET	-	1				500KG		
	4) CONTROL CONSOLE		1	PIANO TYPE			800KG		

		HULL PIPING EQUIPMENT LIST					SHIP No HULL No Dwg. No.	6 / 6 1182/83/1219/20/23/24 02/23/24/1203/04/2034 2F241005PB	
NO.	EQUIPMENT NAME	BRIEF SPEC.	Q'TY	MODEL/TYPE (SERIAL NO.)	MANUFACTURE COMPANY	MANUFACTURE TEL/FAX NO (THE PERSON IN CHARGE)	WEIGHT	REMARK	
	5) STATIONARY HAND PUMP	-	2		DANFOSS MARINE SYSTEMS	KOREA TEL) 82 51 602 5555	62KG/SET	EXCL OIL	
	6) PORTABLE HAND PUMP	-	1			FAX) 82 51 602 5553 www damcos co.kr	20KG	WITH OIL	
14	GAS DETECTION SYSTEM								
	1) SW2020 ANALYZING UNIT FOR 34 EXTERNAL MEASURING POINTS	SALWICO SW2020	1		CONSILIUM KOREA	KOREA TEL) 82 51 740 58 71 FAX) 82 51 740 58 70			