PROFILE

TANK TOP PLAN

E/R 2ND DECK

E/R 3RD DECK

TYPICAL SECTION

DEAD WEIGHT SCALE

DRAWING HISTORY

REV. SYMBOL	REVISED BY		REVISED BY
O	OWNER'S COMMENT	DI	DESIGN IMPROVEMENT
C	CLASS COMMENT	DM	DESIGN MISTAKE
A	AUTHORITY COMMENT	DA	DETAIL ARRANGEMENT
M	MAKER'S RECOMMENDATION	DO	OTHER DESIGN PART
Y	YARD IMPROVEMENT		

DATE	REV. NO.	REV. SYMBOL	REVISED BY	REMARK
JUNE 16, 2014	0	-	As Final Plan for SB572	

WATER ZONE	TROPICAL FRESH	FRESH	TROPICAL	SUMMER	WINTER
TOTAL DEPTH (M)			19.129		
FREEBOARD (M)	5.241	5.518	5.536	5.813	6.090
DRAFT EXT (M)	13.888	13.611	13.593	13.316	13.039
DISPLACEMENT (T)	63359.1	61933.2	63386.7	61929.3	60475.8
LIGHT WEIGHT (T)			10949.8		
DEAD WEIGHT (T)	52309.3	50883.4	52336.9	50879.5	49426.0

CARGO OIL TANKS

S . G = 0.850

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
NO. 1 C . O . T	82 - 89 (M/D)	P	3311.21	3244.99	64.115	-5.186	11.189	2398.1
NO. 1 C . O . T	82 - 89 (M/D)	S	3310.90	3244.68	64.156	5.183	11.180	2400.6
NO. 2 C . O . T	75 - 82 (M/D)	P	4594.56	4502.67	44.460	-6.822	10.928	4589.0
NO. 2 C . O . T	75 - 82 (M/D)	S	4578.81	4487.23	44.458	6.847	10.929	4579.2
NO. 3 C . O . T	68 - 75 (M/D)	P	4702.00	4607.96	23.847	-6.977	10.923	4907.1
NO. 3 C . O . T	68 - 75 (M/D)	S	4685.14	4591.44	23.844	7.001	10.923	4831.9
NO. 4 C . O . T	61 - 68 (M/D)	P	4700.38	4606.37	3.129	-6.978	10.923	4911.4
NO. 4 C . O . T	61 - 68 (M/D)	S	4687.45	4593.70	3.126	7.003	10.923	4858.1
NO. 5 C . O . T	54 - 61 (M/D)	P	4706.02	4611.90	-17.591	-6.816	10.923	4911.4
NO. 5 C . O . T	54 - 61 (M/D)	S	4689.90	4596.10	-17.594	7.003	10.923	4836.1
NO. 6 C . O . T	47 - 54 (M/D)	P	4550.91	4459.89	-38.156	-6.816	11.158	4893.7
NO. 6 C . O . T	47 - 54 (M/D)	S	4537.23	4446.49	-38.158	6.840	11.159	4818.6
SUB TOTAL			53054.51	51993.42				52853.2
SLOP T	45 - 47	P	536.79	526.05	-50.414	-5.159	10.903	836.6
SLOP T	45 - 47	S	665.91	652.59	-50.407	6.619	11.628	791.7
SUB TOTAL			1202.70	1178.64				1628.3
GRAND TOTAL			54257.21	53172.06				54481.5
RESIDUAL T (P)	45 - 47	P	146.73	143.80	-50.384	-11.433	14.202	39.5

WATER BALLAST TANKS

S . G = 1.025

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
F . P . T	89 - FE	C	1563.66	80.698	-0.002	7.648	2059.4
NO. 1 W . B . T	82 - 89	P	1550.10	66.129	-9.677	8.800	1834.1
NO. 1 W . B . T	82 - 89	S	1836.15	66.123	8.189	7.877	3890.5
NO. 2 W . B . T	75 - 82	P	1505.58	45.487	-11.794	6.768	4763.9
NO. 2 W . B . T	75 - 82	S	1781.53	45.468	9.974	6.089	8630.6
NO. 3 W . B . T	68 - 75	P	1504.81	24.877	-11.929	6.406	5329.4
NO. 3 W . B . T	68 - 75	S	1779.65	24.837	10.085	5.777	9447.5
NO. 4 W . B . T	61 - 68	P	1503.72	4.151	-11.927	6.401	5329.6
NO. 4 W . B . T	61 - 68	S	1778.75	4.111	10.083	5.772	9477.7
NO. 5 W . B . T	54 - 61	P	1496.35	-16.531	-11.911	6.429	5296.0
NO. 5 W . B . T	54 - 61	S	1771.38	-16.577	10.062	5.793	9428.3
NO. 6 W . B . T	47 - 54	P	1402.04	-37.250	-11.595	7.010	5058.1
NO. 6 W . B . T	47 - 54	S	1677.08	-37.298	9.693	6.243	5962.7
NO. 7 W . B . T	45 - 47	P	275.52	-49.951	-10.628	7.484	299.9
NO. 7 W . B . T	45 - 47	S	331.99	-49.959	8.820	6.627	786.0
TOTAL			21758.51				75623.7

FUEL OIL TANKS

S . G = 0.980

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
H. F. O. T	41 - 45	P	421.43	413.00	-53.627	-7.360	11.282	348.1
H. F. O. T	41 - 45	S	528.74	518.17	-53.792	7.875	11.866	396.5
H. F. O. T. SERV. T	41 - 45 (M/D)	P	24.73	24.24	-54.450	-8.965	13.755	0.4
H. F. O. T. SETT. T	41 - 45 (M/D)	P	24.73	24.24	-54.450	-7.615	13.755	0.4
SUB. TOTAL			999.63	979.65				745.4
L.SHF.O. STOR.T	41 - 45	C	329.12	322.54	-53.764	-0.014	10.628	54.7
L.SHF.O. SERV. T	41 - 45 (M/D)	P	24.36	23.87	-54.450	-11.655	13.755	0.4
L.SHF.O. SETT. T	41 - 45 (M/D)	P	24.73	24.24	-54.450	-10.315	13.755	0.4
SUB. TOTAL			378.21	370.65				55.5
GRAND TOTAL			1377.84	1350.30				800.9

MARINE DIESEL OIL TANKS

S . G = 0.890

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
M.D.O. STOR. T	23 - 35 (M/D)	P	109.79	107.59	-58.046	-15.596	13.590	10.1
M.D.O. SERV. T	23 - 35 (M/D)	P	21.32	20.89	-62.500	-13.680	16.160	3.4
M.D.O. SETT. T	27 - 35 (M/D)	P	21.32	20.89	-60.500	-13.680	16.160	3.4
TOTAL			152.43	149.37				16.9

MARINE GAS OIL TANKS

S . G = 0.890

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
M.G.O. STOR. T	31 - 41 (M/D)	S	131.12	128.50	-58.445	13.610	14.008	10.1
M.G.O. SERV. T	31 - 41 (M/D)	S	21.32	20.89	-62.500	-13.680	16.160	3.4
M.G.O. SERV.T. FOR HFP	36 - 40	P	10.54	10.33	-57.900	-5.740	10.950	0.3
TOTAL			162.98	159.72				13.8

LUBRICATING OIL TANKS

S . G = 0.900

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
M/E L.O SUMP. T	21 - 34	C	27.33	26.78	-66.539	0.017	1.322	11.4
M/E L.O STOR. T	25 - 29	S	25.46	24.95	-66.700	14.095	16.160	2.2
M/E L.O SETT. T	25 - 29	S	26.22	25.70	-66.700	12.035	16.160	2.4
G/E L.O STOR. T	26 - 29	S	12.70	12.45	-66.300	10.315	16.160	0.5
G/E L.O SETT. T	26 - 29	S	12.70	12.45	-66.300	8.965	16.160	0.5
NO.1 CYL.O STOR. T	28 - 30	P	21.17	20.75	-65.100	-8.627	16.160	5.1
NO.2 CYL.O STOR. T	28 - 30	P	22.11	21.67	-65.100	-12.077	16.160	5.8
TOTAL			147.69	144.75				27.9

FRESH WATER TANKS

S . G = 1.000

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	VOLUME (M³) 98 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
F . W . T	1 - 12	P	174.56	171.07	-82.064	-10.596	16.937	99.8
DISTIL. W . T	-1 - 6	S	85.43	83.72	-85.007	10.093	17.054	36.0
FEED. W . T	6 - 12	S	108.28	106.11	-80.611	10.838	16.890	67.7
TANK CLEAN. T	AE - 11	C	33.01	32.35	-84.835	-0.160	11.670	327.6
TOTAL			699.28	685.30				531.1

OTHER TANKS

TANK NAME \ ITEMS	LOCATION FRAME (M/D)	SIDE	VOLUME (M³) 100 %	CENTER OF GRAVITY (M) L . C . G	T . C . G	V . C . G	MAX. OF INERTIA (M⁴)
S/T C. W. T	6 - 13 (CL)	C	25.72	-79.567	-0.031	3.443	3.4
B. H. T	13 - 20	C	32.63	-74.639	-0.048	1.227	27.7
B. O. C. T	30 - 35	P	20.90	-62.158	-3.321	1.461	16.2
M.D.O/M.G.O. OVER T	27 - 30	S	8.55	-65.435	2.934	1.506	3.4
F.O DR. T	28 - 30	P	6.01	-65.072	-2.975	1.500	2.5
F.O OVER T	38 - 41	P	11.32	-56.731	-2.260	1.794	18.5
HFO. G. T FOR H.P.P	37 - 40	S	22.35	-57.500	2.795	8.500	34.9
HFO. G. DR. T FOR H.P.P	37 - 40	P	16.95	-57.500	-2.120	8.500	15.2
L.O DR. T	26 - 28	P	4.79	-66.667	-2.798	1.528	1.4
SEWAGE H. T	15 - 19	P	41.58	-74.626	-9.942	11.035	52.5
SLUDGE T	30 - 38	P	13.97	-61.100	-9.302	8.800	4.4
S/T L. O. S. T	16 - 17	S	1.57	-75.095	1.002	1.868	0.6

REMARK

1. L.C.G : (+) SIGN MEANS FORE FROM MIDSHIP
   (-) SIGN MEANS AFT FROM MIDSHIP.
2. V.C.G : VERTICAL CENTER OF GRAVITY ABOVE BASE LINE
3. T.C.G : (+) SIGN MEANS STARBOARD FROM CENTER LINE
   (-) SIGN MEANS PORT FROM CENTER LINE.

PRINCIPAL PARTICULARS

LENGTH (O.A)		183.10	M
LENGTH (B.P)		174.00	M
BREADTH (MLD)		32.20	M
DEPTH (MLD)		19.10	M
DRAFT (MLD)	(DESIGN)	11.00	M
DRAFT (MLD)	(SCANT.)	13.30	M

FREEBOARD : "A" TYPE (ASSIGNED TYPE "B")
FLAG : LIBERIA

MAIN ENGINE
TYPE : B&W 6S50ME-B9.2
MCR : 7,570 KW at 99.0 RPM
NCR : 6,056 KW at 91.9 RPM

CLASSIFICATION : GL
- 100A5, Oil Tanker, Chemical Tanker, Ship Type2, CSR, ESP, RSD, CM-PS, IW, SPM
- MC, AUT, INERT, EP, VEC

FINAL PLAN

IMO NO. : 9676515

Approved By	J. H. KIM	DWT 51,200 CLASS PRODUCT / CHEMICAL TANKER	Ship No. SB572
Approved By			M/V GREEN SKY
Approved By	H. S. KIM	CAPACITY PLAN	Scale 1 / 200 · Owner AEGEAN
Checked By			Date JUNE 16,2014 · Rev.No. 0
Drawing By	J. Y. LEE (+82-55-639-5154)		Class GL · Drawing No. 2B1010G081

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