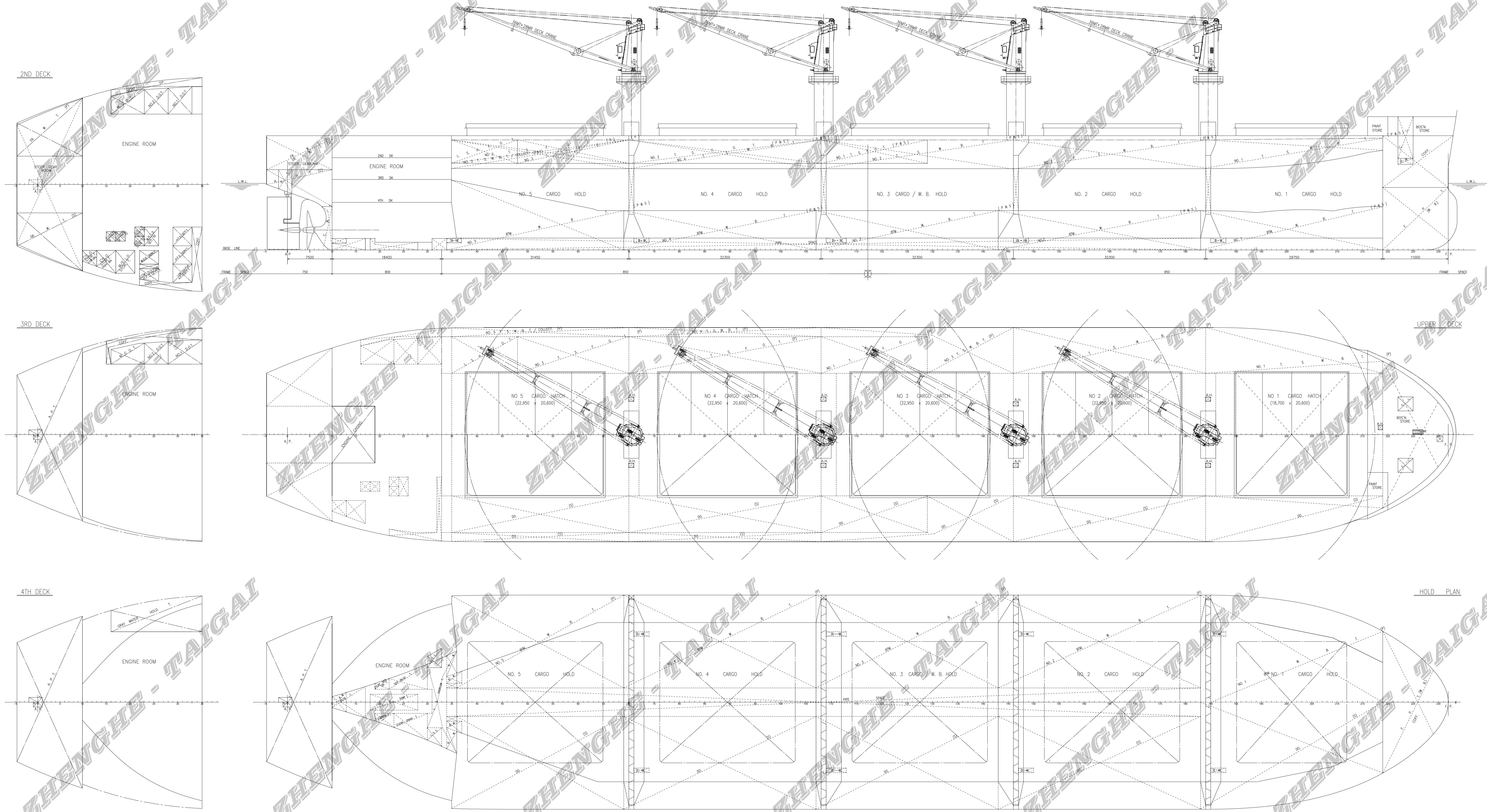


CAPACITY PLAN



PRINCIPAL PARTICULARS	
LENGTH(O.A.)	abt.199.990 m
LENGTH(P.P.)	195.000 m
BREADTH(MID.)	36.000 m
DEPTH(MID.)	18.500 m
DRAUGHT(DESIGN)	11.200 m
DRAUGHT(LOAD)	12.900 m
DEAD WEIGHT(12.800m)	abt.67,000 mt
CLASS	NO. NS (CLASS. BY A. B.C. NO. GRAB 20) (ESP. MMS-1000) (MMS-1000)
Descriptive Note : Strengthened for heavy cargo loading, while hold nos. 2 & 4 may be empty.	

SUMMARY							
NO.	COMPARTMENT	LOCATION Fr. to Fr.	VOLUME (m ³) 100% FULL	WEIGHT (T)	CENTER OF GRAVITY (LONG. (MM), TRANS. (C.L.), VERT. (B.L.))	MAX.FREE SURFACE MOMENT (m ²)	
CARGO HOLD (S.G.=1.00 t/m ³)							
1	No.1 CARGO HOLD	184.5-219.0	14,852.06		-71.28 0.000 10.78		
2	No.2 CARGO HOLD	146.5-184.5	17,733.23		-41.09 0.000 10.59		
3	No.3 CARGO HOLD	108.5-146.5	17,597.48		-8.82 0.000 10.68		
4	No.4 CARGO HOLD	70.5-108.5	17,284.54		33.50 0.000 10.63		
5	No.5 CARGO HOLD	33.0-70.5	15,443.63		54.31 0.000 11.11		
TOTAL			83,153.86				

NO.	COMPARTMENT	LOCATION	VOLUME (M ³)	WEIGHT (T)	CENTER OF GRAVITY (LONG. TRANS. VERT.)	MAX.FREE SURFACE MOMENT (M ²)	
HEAVY FUEL OIL (S.G.=0.98 t/m ³)							
1	NO.1 T.S.F.O.T(P)	26.0-129.0	262.82	249.68	244.69	-1.08 -14.07 17.32	347.7
2	NO.1 T.S.F.O.T(P)	108.0-129.0	262.82	249.68	244.69	-1.08 -14.07 17.32	347.7
3	NO.2 T.S.F.O.T(P)	70.0-108.0	475.59	451.81	442.77	24.00 -14.07 17.32	629.2
4	NO.2 T.S.F.O.T(P)	70.0-108.0	475.59	451.81	442.77	24.00 -14.07 17.32	629.2
5	NO.3 T.S.F.O.T(P)	35.0-70.0	436.04	416.14	407.82	55.03 14.07 17.32	579.5
6	NO.3 T.S.F.O.T(P)	35.0-70.0	436.04	416.14	407.82	55.03 14.07 17.32	579.5
7	L.S.H.F.O.T(S)	35.0-48.0	162.70	154.57	151.47	64.38 -14.07 17.32	215.2
8	L.S.H.F.O.T(S)	29.0-33.0	19.85	19.45	18.48	8.70 17.32 8.6	
9	L.S.H.F.O.T(S)	29.0-33.0	17.73	16.94	16.51	73.23 11.82 17.12	7.9
10	L.S.H.F.O.T(S)	29.0-33.0	16.13	15.32	15.02	73.23 14.90 17.04	7.9
11	L.S.H.F.O.T(S)	22.0-28.0	10.73	10.19	9.99	78.71 15.18 17.03	2.4
12	F.O.OVERFLOW T(C)	30.0-36.0	70.47	66.95	65.61	71.85 -0.29 1.01	631.0
13	F.O.DRAIN T(S)	19.0-23.0	5.07	4.82	4.72	80.83 2.77 1.30	1.2
TOTAL							
2498.17 2373.85 2325.80							

NO.	COMPARTMENT	LOCATION	VOLUME (M ³)	WEIGHT (T)	CENTER OF GRAVITY (LONG. TRANS. VERT.)	MAX.FREE SURFACE MOMENT (M ²)	
LUB. OIL (S.G.=0.90 t/m ³)							
1	NO.1 D.O.T(P)	28.0-35.0	144.42	137.20	130.74	73.06 -14.07 15.06	44.1
2	NO.2 D.O.T(P)	23.0-28.0	110.90	103.36	92.71	77.56 -14.07 15.37	25.4
3	M.G.O.T(P)	16.0-23.0	132.39	125.77	110.68	82.28 -13.58 15.39	23.3
4	D.O.SERV.T(S)	17.0-19.0	6.97	6.62	5.83	83.68 6.71 17.60	0.5
5	D.O.SETT.T(S)	15.0-17.0	6.97	6.62	8.53	85.20 8.71 17.60	0.5
6	M.G.O.SERV.T(S)	22.0-26.0	18.27	17.36	16.22	76.80 12.22 16.76	3.3
TOTAL			419.92	398.93	356.06		
LUB. OIL (S.G.=0.90 t/m ³)							
1	NO.1 D.O.T(P)	28.0-35.0	144.42	137.20	130.74	73.06 -14.07 15.06	44.1
2	NO.2 D.O.T(P)	23.0-28.0	110.90	103.36	92.71	77.56 -14.07 15.37	25.4
3	M.G.O.T(P)	16.0-23.0	132.39	125.77	110.68	82.28 -13.58 15.39	23.3
4	D.O.SERV.T(S)	17.0-19.0	6.97	6.62	5.83	83.68 6.71 17.60	0.5
5	D.O.SETT.T(S)	15.0-17.0	6.97	6.62	8.53	85.20 8.71 17.60	0.5
6	M.G.O.SERV.T(S)	22.0-26.0	18.27	17.36	16.22	76.80 12.22 16.76	3.3
TOTAL			419.92	398.93	356.06		

NO.	COMPARTMENT	LOCATION	VOLUME (M ³)	WEIGHT (T)	CENTER OF GRAVITY (LONG. TRANS. VERT.)	MAX.FREE SURFACE MOMENT (M ²)
BALLAST WATER (S.G.=1.025 t/m ³)						
1	F.P. T.	219.0-T.E.	2,262.80	2,319.37	-91.41 0.00 5.69	6,345.4
2	No.1 T.S.W.B.T(P)	184.0-219.0	450.60	461.87	-68.45 -14.44 17.21	791.5
3	No.1 T.S.W.B.T(S)	184.0-219.0	450.60	461.87	-68.45 -14.44 17.21	791.5
4	No.2 T.S.W.B.T(P)	146.0-184.0	694.68	712.05	-40.60 -15.07 17.01	1,226.3
5	No.2 T.S.W.B.T(S)	146.0-184.0	694.68	712.05	-40.60 -15.07 17.01	1,226.3
6	No.3 T.S.W.B.T(P)	108.0-146.0	431.00	441.78	-12.71 -15.68 16.81	762.8
7	No.3 T.S.W.B.T(S)	108.0-146.0	431.00	441.78	-12.71 -15.68 16.81	762.8
8	No.4 T.S.W.B.T(P)	70.0-108.0	218.12	223.57	24.00 -17.25 16.32	9.8
9	No.4 T.S.W.B.T(S)	70.0-108.0	218.12	223.57	24.00 -17.25 16.32	9.8
10	No.5 T.S.W.B.T(P)	33.0-70.0	210.69	215.96	55.77 -17.25 16.32	9.8
11	No.5 T.S.W.B.T(S)	33.0-70.0	210.69	215.96	55.77 -17.25 16.32	9.8
12	No.1 BTM. W.B.T(P)	183.0-219.0	1,212.35	1,242.66	-70.22 -9.45 1.71	10,984.2
13	No.1 BTM. W.B.T(S)	183.0-219.0	1,212.35	1,242.66	-70.22 -9.45 1.71	10,984.2
14	No.2 BTM. W.B.T(P)	143.0-183.0	1,387.80	1,422.50	-38.89 -11.71 1.67	10,750.9
15	No.2 BTM. W.B.T(S)	143.0-183.0	1,387.80	1,422.50	-38.89 -11.71 1.67	10,750.9
16	No.3 BTM. W.B.T(P)	107.0-143.0	1,249.69	1,280.93	-6.60 -11.71 1.67	9,683.2
17	No.3 BTM. W.B.T(S)	107.0-143.0	1,249.69	1,280.93	-6.60 -11.71 1.67	9,683.2
18	No.4 BTM. W.B.T(P)	69.0-107.0	1,314.93	1,347.80	24.81 -11.69 1.71	10,194.9
19	No.4 BTM. W.B.T(S)	69.0-107.0	1,314.93	1,347.80	24.81 -11.69 1.71	10,194.9
20	No.5 BTM. W.B.T(P)	35.0-70.0	1,336.23	1,369.64	55.58 -11.43 3.23	5,533.2
21	No.5 BTM. W.B.T(S)	35.0-70.0	1,336.23	1,369.64	55.58 -11.43 3.23	5,533.2
22	A. P. T.	A.E.-10.0	844.13	865.23	94.55 0.06 11.61	14,251.5
TOTAL						
TOTAL			20,098.01	20,600.48		
FRESH WATER (S.G.=1.000 t/m ³)						
1	F.P. T.	A.E.-10.0	464.94	464.94	-10.00 28.70 16.25	496.0
2	D. F.W.T(S)	A.E.-10.0	464.94	464.94	-10.00 28.70 16.25	496.0
3	F.W.T(C)	A.E.-10.0	10.84	10.84	0.00 66.00 3.52	0.8
TOTAL						
TOTAL			940.72	940.72		
WISSELAND						
1	ST. BULK T. (P)	22.0-33.0	21.31	18.67	-3.59 1.16 1.84	
2	ST. BULK T. (S)	22.0-33.0	21.31	18.67	-3.59 1.16 1.84	
3	ST. DR. CRAN (P)	19.0-22.0	2.44	8.43	-2.71 1.33 0.6	
4	ST. DR. CRAN (S)	19.0-22.0	2.44	8.43	-2.71 1.33 0.6	
5	ST. DR. CRAN (T)	21.0-33.0	23.08	7.84	-4.31 1.15 1.73	
6	ST. CR. T. (C)	10.0-10.7	23.31	96.28	0.00 9.04 2.87	
7	ST. CR. W. H.D. (P)	16.0-20.0	26.77	15.38	-14.02 1.82 1.19	

FRESH WATER (S.G.=1.000 t/m ³)						
1	F.W.T(P)	A.E.-10.0	464.94	464.94	95.92	8.70 16.25 496.0
2	D. F.W.T(S)	A.E.-10.0	464.94	464.94	95.92	8.70 16.25 496.0
3	C.W.T(C)	10.84	464.94	464.94	90.66	0.000 3.52 0.8
TOTAL						
940.72 940.72						

MISCELLANEOUS						
SEP. BLGE. T(P)	22.0-30.0	23.46		76.87	-5.39 1.16 18.4	
STUFF. BOX DRAIN T(P)	19.0-22.0	2.36		81.43	-2.71 1.33 0.6	
CLEAN DRAIN T(S)	23.0-30.0	23.38		76.41	3.43 1.15 17.3	
BLGE. T(C)	10.0-17.0	23.31		86.29	0.00 1.04 21.7	
GRAY W.HOLD. T(P)	16.0-25.0	264.77		78.81	-14.02 9.82 189.6	

Note: 1: 01.000 minus (-) shows forward from MIDSHIP.
Note: 2: 01.000 of gravities (L.C.G., and V.C.G.) shows corresponding to full capacity.
Note: 3: 01.000 L.C.G., minus sign (-) shows port side from center line.

14 Jan. 2012	ORIGINAL	N.S.
BIBLIOGRAPHY		
SHIP PLANNING DEPARTMENT	SHIP NAME	SHIP NO.
TAGAI		ZH670060/ZH670061
APPROVED BY		
T.Shiraishi		
CHECKED BY		
N.S.		
DRAWN BY		
N.Sugimoto		
DATE	14 Jan. 2011	1/200
		G-0015
		REV. NO.