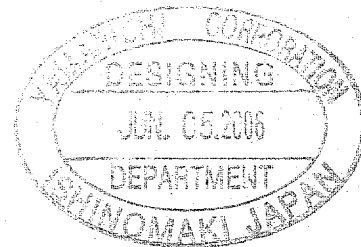


DATE

BIBLIOGRAPHY

FOR APPROVAL



6 Sheets with cover

CAUTION : This drawing is the PROPERTY of YAMANISHI CORPORATION and the disclosure to a third party is prohibited without its prior written permission.

MANAGER <i>M. Saijo</i>	SHIP NO.	DRAWING NO.	CLASS
ASS. MANAGER <i>[Signature]</i>	1044	B-180	N. K.
CHIEF	D.W. 19,000M. T. TYPE BULK CARRIER  CAPACITY PLAN  SCALE : ~		
ASS. CHIEF			
CHECKED <i>M. Takahashi</i>			
DRAWN <i>M. Otomura</i>			
DATE 5 <sup>th</sup> Jun. 2006			

YAMANISHI CORPORATION

TANK CAPACITY TABLE

WATER BALLAST TANKS		S. G. = 1.025				
NAME OF TANKS		POSITION	CAPACITY	WEIGHT	MID. G	K G
F. P. T.	C	181 -F.E.	614.43	630	-62.76	6.06
No. 1 W. B. T.	C	171 - 181	1325.34	1358	-56.08	6.15
No. 2 W. B. T.	C	33 - 37	483.69	496	42.39	6.70
NO. 1 T. S. W. B. T.	P	138 - 171	195.76	201	-40.13	10.48
	S	138 - 171	195.76	201	-40.13	10.48
NO. 1 D. B. W. B. T.	P	138 - 171	423.03	434	-41.18	1.02
	S	138 - 171	423.03	434	-41.18	1.02
SUM (NO. 1 T. & D. W. B. T.)	P	138 - 171	618.79	635	-40.85	4.01
	S	138 - 171	618.79	635	-40.85	4.01
NO. 2 T. S. W. B. T.	P	104 - 138	230.32	236	-17.80	10.41
	S	104 - 138	230.32	236	-17.80	10.41
NO. 2 D. B. W. B. T.	P	104 - 138	441.52	453	-17.79	0.81
	S	104 - 138	441.52	453	-17.79	0.81
SUM (NO. 2 T. & D. W. B. T.)	P	104 - 138	671.84	689	-17.79	4.10
	S	104 - 138	671.84	689	-17.79	4.10
NO. 3 T. S. W. B. T.	P	69 - 104	237.10	243	6.35	10.41
	S	69 - 104	237.10	243	6.35	10.41
NO. 3 D. B. W. B. T.	P	69 - 104	453.79	465	6.32	0.81
	S	69 - 104	453.79	465	6.32	0.81
SUM (NO. 3 T. & D. W. B. T.)	P	69 - 104	690.89	708	6.33	4.10
	S	69 - 104	690.89	708	6.33	4.10
NO. 4 T. S. W. B. T.	P	37 - 69	216.74	222	29.80	10.41
	S	37 - 69	216.74	222	29.80	10.41
NO. 4 D. B. W. B. T.	C	33 - 69	218.56	224	31.40	0.74
SUM (NO. 4 T. & D. W. B. T.)	C	33 - 69	652.04	668	30.33	7.17
A. P. T.	P	A. E. - 10	150.28	154	63.58	10.03
	S	A. E. - 10	150.28	154	63.58	10.03
TOTAL			7339.10	7524	-	-

FUEL OIL & DIESEL OIL TANKS				S. G. : FUEL = 0.980 DIESEL = 0.850			
NAME OF TANKS	POSITION	FR. NOS.	CAPACITY (m <sup>3</sup> )	95% CAPACITY		MID. G (m)	K G (m)
				(m <sup>3</sup> )	(T)		
F. O. T.	P	33 - 69	318.92	302.97	297	30.31	1.02
	S	33 - 69	318.92	302.97	297	30.31	1.02
SUM			637.84	605.94	594	—	—
D. O. T.	P	21 - 31	35.91	34.11	29	48.11	1.04
	S	22 - 31	32.60	30.97	26	47.98	1.03
SUM			68.51	65.08	55	—	—
TOTAL			706.35	671.02	649	—	—

FRESH WATER TANKS				S. G. = 1.000			
NAME OF TANKS	POSITION	FR. NOS.	CAPACITY (m <sup>3</sup> )	WEIGHT (T)	MID. G (m)	K G (m)	
							F. W. T.
	S	A. E. - 10	114.12	114	65.41	13.11	
DRINKING W. T.	P	A. E. - 10	114.12	114	65.41	13.11	
TOTAL			334.49	334	—	—	

OTHER TANKS						
NAME OF TANKS		POSITION FR. NOS.	CAPACITY (m <sup>3</sup> )	WEIGHT (T)	MID. G (m)	K G (m)
S. G. = 1.025						
HOLD BILGE T.	P	33 - 37	64.56	66	42.38	8.11
	S	33 - 37	64.56	66	42.38	8.11
S. G. = 0.900						
L. O. S. T.	C	20 - 30	10.94	10	49.45	1.70
S. G. = 1.000						
BILGE SEPA. O. T.	C	16 - 19	14.37	14	54.60	0.95
S. G. = 1.000						
BILGE T.	C	10 - 16	15.09	15	57.30	0.90
S. G. = 1.000						
C. F. W. DRAIN T.	P	19 - 20	3.11	3	53.24	1.00
S. G. = 0.980						
F. O. DRAIN T.	S	19 - 20	3.11	3	53.24	1.00
S. G. = 0.980						
L. O. SLUDGE & DRAIN T.	S	21 - 22	1.99	2	51.84	1.14
S. G. = 1.000						
S/T COOLING W. T.	C	6.5 - 10	10.65	11	60.68	2.89
S. G. = 0.900						
M/E L. O. STOR. T.	P	10 - 14	29.55	27	58.45	10.30

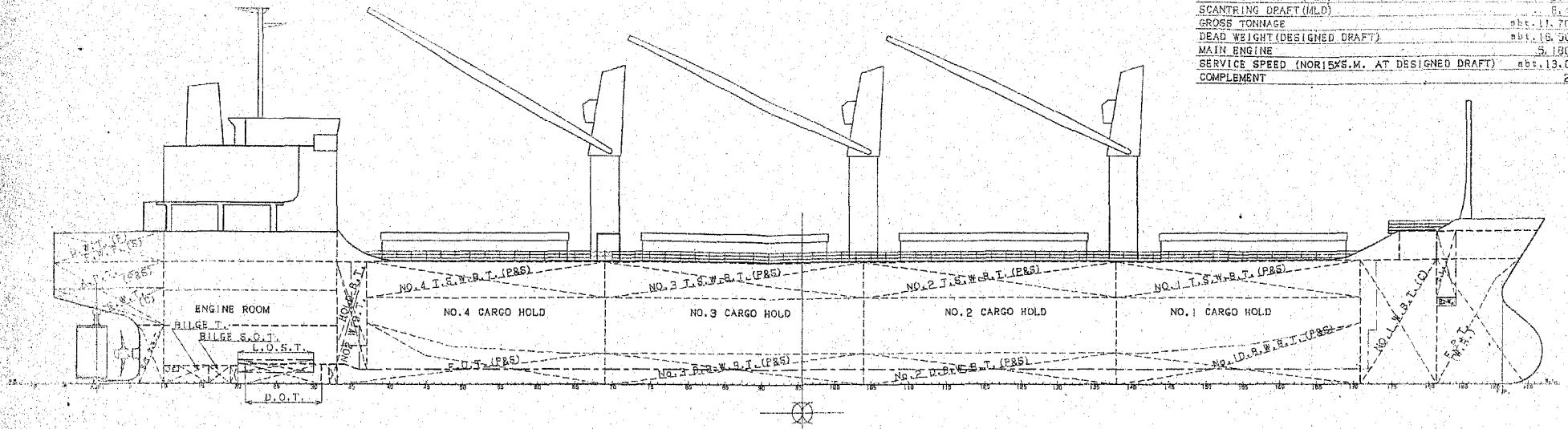
### HOLD CAPACITY TABLE

CARGO HOLD					
NAME OF HOLDS	POSITION FR. NOS.	CAPACITY (m <sup>3</sup> )		MID. G (m)	K G (m)
		GRAIN	BALE		
NO. 1 CARGO HOLD & HATCH COAMING	138 - 171	5556.57	5419.14	-41.03	6.92
NO. 2 CARGO HOLD & HATCH COAMING	104 - 138	5992.32	5833.00	-17.83	6.77
NO. 3 CARGO HOLD & HATCH COAMING	69 - 104	6155.11	5984.17	6.35	6.76
NO. 4 CARGO HOLD & HATCH COAMING	37 - 69	5456.56	5326.70	29.66	6.95
TOTAL		23160.56	22563.01	—	—
NO. 1 HATCH COAMING ONLY	144 - 169	459.59	—	-42.65	12.62
NO. 2 HATCH COAMING ONLY	109 - 134	459.59	—	-18.15	12.62
NO. 3 HATCH COAMING ONLY	74 - 99	459.59	—	6.35	12.62
NO. 4 HATCH COAMING ONLY	39 - 64	459.59	—	30.85	12.62
TOTAL		1838.36	—	—	—

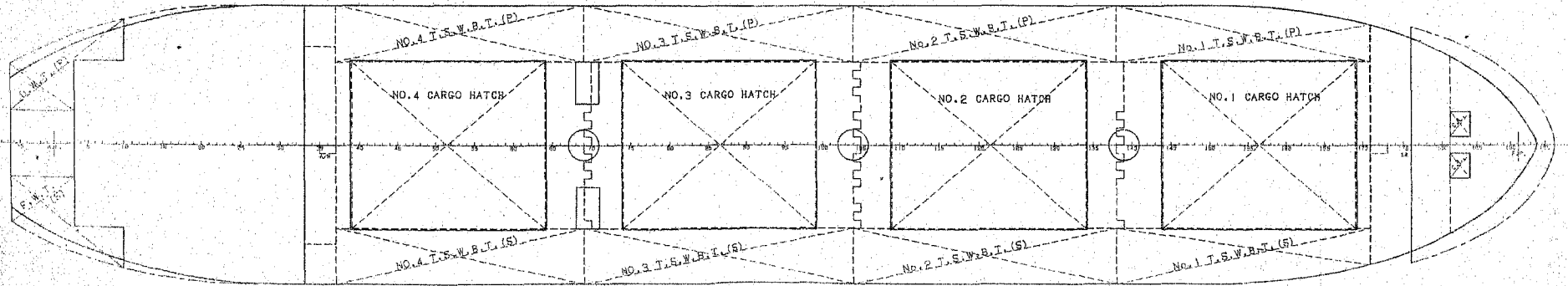
# TANK ARRANGEMENT

## PRINCIPAL PARTICULARS

LENGTH O. A.	abt. 159.90 m
LENGTH B. P.	132.00 m
BREADTH (M.L.D.)	23.00 m
DEPTH (M.L.D.)	11.50 m
DESIGNED DRAFT (M.L.D.)	2.40 m
SCANTLING DRAFT (M.L.D.)	8.40 m
GROSS TONNAGE	abt. 11,700 t
DEAD WEIGHT (DESIGNED DRAFT)	abt. 16,500 t
MAIN ENGINE	5,180 kW
SERVICE SPEED (NOR15% S.M. AT DESIGNED DRAFT)	abt. 13.00 kt
COMPLEMENT	22 p



## UPPER DECK



## TANK TOP

