





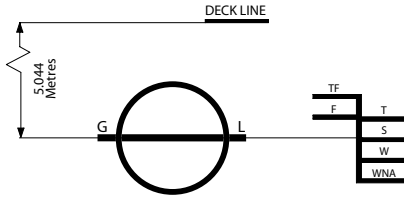
<b>Air Drafts</b>												
<i>(metres)</i>												
Draft Condition	Stem	Foremast	Hatches			Cargo Gear	Main Mast		Funnel	Stern	Other Obstruction*	Maximum
			Forward	Midship	Aft		Deployed	Lowered				
Keel	26.00	38.10	23.75	20.85	20.85	37.60	48.90	48.90	41.40	19.00	N/A	48.90
Light Ship	24.00	37.30	22.00	18.20	17.40	35.50	43.50	43.50	35.80	13.50	N/A	43.50
Normal Ballast 50% Bunker	20.20	32.24	17.05	13.97	13.41	31.70	41.15	41.15	33.60	11.10	N/A	41.15
Fully Loaded 50% Bunker	12.17	24.27	9.92	8.02	8.02	23.77	35.07	35.07	27.57	5.17	N/A	35.07

<b>Hatch and Hold Specifications</b>									
Hold Number	1	2	3	4	5	6	7	TOTAL	
<b>Hold Volumes (cubic metres)</b>									
Cubic (grain)	7,440	9,256	9,076	9,079	9,075	8,852	8,743	61,521	
Cubic in Hatchcoaming	463	596	508	508	508	508	508	3,599	
<b>Hold Openings (metres)</b>									
Number of Openings	1	1	1	1	1	1	1	7	
Opening Length	16.7 / 8.8	16.7	16.7	16.7	16.7	16.7	16.7	16.7	
Opening Width	15.2 / 2 x 4.18	15.2	15.2	15.2	15.2	15.2	15.2	15.2	
Coaming Height above Keel	23.0	21.7	21.0	21.0	21.0	21.0	21.0	21.0	
<b>Hatch Information (metres)</b>									
Description	Side Rolling	Side Rolling	Side Rolling	Side Rolling	Side Rolling	Side Rolling	Side Rolling		
Operation	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	
Hatch Length	17.00 m	17.00 m	17.00 m	17.00 m	17.00 m	17.00 m	17.00 m	17.00 m	
Hatch Width	7.75 m	7.75 m	7.75 m	7.75 m	7.75 m	7.75 m	7.75 m	7.75 m	
Hatch Top Height above Keel	24.85 m	22.75 m	21.95 m	21.95 m	21.95 m	21.95 m	21.95 m	21.95 m	

<b>Cargo Handling Equipment</b>	
• Fixed Type Conveyor along boom	
• Two variable speed (0.47 - 1.75m/s) hold conveyors	
• Two fixed speed (2.54m/s) transfer conveyors	
• One variable speed (1.43 - 4.77m/s) 'C' loop conveyor	
• One fixed speed (3.80m/s) boom conveyor	
• Hold conveyor belts 2.20m wide	
• Transfer conveyor belts 2.20m wide	
• 'C' loop conveyor 2.52m (outside belt) and 2.70m (inner belt) wide	
• Boom conveyor 1.80m wide	
• All belts have 35 degree trough	
• Dust Suppression: Holds are filled with positive air pressure dust collectors plus water/air sprayers on the boom	
• Discharge Rate:	
Coal	5,000 m <sup>3</sup> /hr
Ore/Gypsum/Granite	4,000 tonnes/hr
• Boom working area: 95° to port, 95° to starboard side	
• Maximum Boom Outreach: 61.90 metres	

<b>Consumption (tonnes per day)</b>					
	Speed		Main Engine HFO		Generators
	Loaded	Ballast	Loaded	Ballast	MDO
Sea	14.4	15.0	46.0	42.0	2.2
Port / Anchorage			N/A	N/A	2.0
Loading / Discharge			N/A	N/A	2.0 / 7.6

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ASSIGNED DRAFTS			
Season	Draft (metre)	Displ. (tonnes)	DWT (tonnes)
TF	14.43	86,598	68,095
F	14.14	84,696	66,193
T	14.12	86,637	68,134
S	13.83	84,691	66,188
W	13.54	82,750	64,247
WNA	13.25	80,812	62,309

**Light Ship**  
18,503 tonnes

DEADWEIGHT SCALE									
DRAFT				DISPLACEMENT	TPC	DEADWEIGHT	DRAFT		
Sea Water		Fresh Water					Sea Water		
(metre)	(feet)	(metre)	(feet)	(tonnes)	(tonnes)	(tonnes)	(feet)	(metre)	
15	48	15	48	90,000		70,000	48	15	
14	46	14	46				46	14	
13	44	13	44	80,000	67	60,000	44	13	
12	40	12	40				40	12	
11	38	11	38	70,000	66	50,000	38	11	
10	36	10	36				36	10	
9	34	9	34	60,000	65	40,000	34	9	
8	32	8	32				32	8	
7	30	7	30	50,000	64	30,000	30	7	
6	28	6	28				28	6	
5	26	5	26	40,000	63	20,000	26	5	
4	24	4	24				24	4	
3	22	3	22	30,000	62	10,000	22	3	
2	20	2	20				20	2	
1	18	1	18	20,000	61	0	18	1	
0	16	0	16				16	0	
	14		14				14		
	12		12				12		
	10		10				10		
	8		8				8		
	6		6				6		
	4		4				4		
	2		2				2		
	0		0	10,000	59		0		
					58				
					57				

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