



MV INDIAN CITY



Call Sign G.V.Z.E.
Official No. 308645

OWNERS

Reardon Smith Line Limited, Cardiff
Sir William Reardon Smith & Sons Limited, Managers

BUILT IN 1967

Fairfields (Glasgow) Ltd.

CLASS

Bulkcarrier
* 100-A1 strengthened for ore cargoes—
Numbers 2 & 6 holds may be empty

FULL SPECIFICATION

DESCRIPTION

Single steel deck single screw bulk carrier with engine and accommodation aft suitable for general bulk cargoes and convertible to a vehicle carrier capable of transporting 2820 Datsun Limousines or 2900 VW 1300's. All the above handled by Ships own gear.

Seven hatches with hydraulically powered mechanical steel covers.

DIMENSIONS

Length overall	668'2"	203.66 m
Length between perpendiculars	630'0"	192.02 m
Breadth molded	95'0"	28.955 m
Depth molded to upper deck	53'6"	16.306 m
Summer freeboard draft	39'6"	12.040 m
Corresponding deadweight	43442 tons	44140 tonnes
Tons per inch immersion	129	

TONNAGES

Gross	27,018.46 tons
Nett	17,907.17 tons

MAIN MACHINERY

Clark-Sulzer 6RD90 6 cylinder producing 13,800 BHP @ 119 R.P.M.

SPEED/CONSUMPTION

About 14 1/2 knots on 45 tons I.F.O. per day at 1200 secs plus 2 1/2 tons diesel oil.

PORT CONSUMPTION

4 tons I.F.O. and 2 tons diesel oil per 24 hours working.

PROPELLER

Working: Stone Manganese Marine Ltd., right handed
4 blades, Diameter 19.75 ft. pitch 14.48 ft.
of Manganese bronze.
Spare: Andrew Strang & Co. Ltd., right handed
with 4 blades, Diameter 17.50 ft. pitch
15.40 ft. of cast iron.

CARGO GEAR

14 x 10 ton derricks with Blohm & Voss-automated
cargo handling system.
2 x 3 ton store derricks.

HOLD CAPACITIES

1.	131,301	Wing tank*	—
2.	216,834		36,024
3.	245,369		39,460
4.	264,297		42,748
5.	220,719		36,172
6.	263,838		42,748
7.	211,678		35,042
<u>1,554,036 cu. ft.</u>		<u>232,194 cu. ft.</u>	

Total 1,786,230 cu. ft.

* Wing tank capacity may only be fully utilised for
grain loading by removal of car deck pontoons from their
stowage racks.

HATCH COVERS

"ASCA" Chain operated compact folding metal hatch
covers driven by "Staffa" hydraulic motors.

HATCHES

1.	27'0" x 45'0"	Hold lengths	49'6"
2.	36'0" x 45'0"		66'0"
3.	43'6" x 45'0"		72'0"
4.	48'0" x 45'0"		78'0"
5.	36'0" x 45'0"		66'0"
6.	48'0" x 45'0"		78'0"
7.	36'0" x 45'0"		66'0"

FUEL CAPACITY

Heavy oil 98% full 2337 tons @ 39 cu. ft. per ton
Diesel oil 98% full 244 tons @ 42 cu. ft. per ton

WATER BALLAST CAPACITY

16,373 tons using available hopper double bottom upper
wing and peak tanks full

FEATURES

CO₂ system to cargo holds and machinery spaces.
Mechanical ventiation providing 10 changes of air in
holds per hour.
Portable car decks allowing swift change from bulk
to car carrying by Ship's personnel

NAVIGATIONAL EQUIPMENT

Magnetic compass with reflector binnacle.
Gyro compass by Arma-Brown with Brown auto
helmsman
Decca Radar trueemotion 626
Direction finder, Marconi "Lodestar" automatic
Loran Furono and Mark 21 Decca navigator
Echo sounder Marconi Contour & Metron III
V.H.F. Marconi "Argonaut"
Automatic fog signals by air and electrical whistle

RADIO INSTALLATION

Based on Marconi "Crusader" with Marconi Salvor
II emergency transmitter and Marconi "Atalanta",
"Monitor" and Redifon R 408 receivers. This installation
gives world wide telegraphic and telephonic communica-
tion.

MOORING WINCHES & WINDLASS

2 Pusnes type cable lifters driven by Siemens motors
4 Electric self tensioning winches.
1 Electric capstan.
All of Pusnes manufacture.

ANCHORS

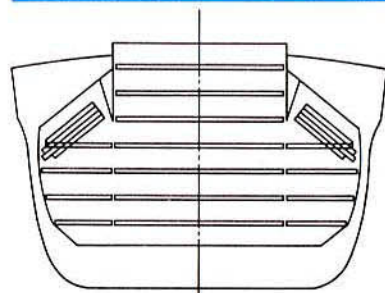
Three stockless anchors by W. L. Byers & Co. Ltd.,
each about 141 cwt.

AUXILIARY MACHINERY

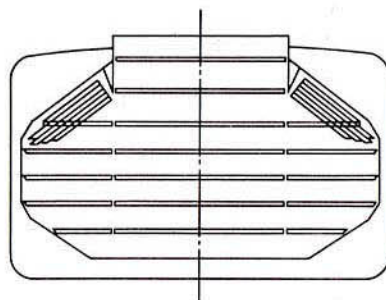
Generators: 3 Rustons & Hornsby 6 cylinder APCZ
each giving 620 B.H.P. @ 720 R.P.M.
Alternators: 3 Siemens Schuckert B 16 producing
425 Kw at 440 v 3 phase 60 cycles
alternating current.
2 Boilers: By Marshall and Anderson Ltd., vertical
"P" type.
producing (1) 4000 p.p.h. @ 100 p.s.i. on engine
exhaust or oil
(2) 1750 p.p.h. @ 100 p.s.i. on oil
Balast Pumps: 2 Hamworthy vertical self priming
centrifugal delivering 1000 T.P.H.
Against 30 p.s.i.
2 Bilge & G.S. pumps Hamworthy
Dolphin vertical self priming 90/140
T.P.H. against 200/60 feet head.

STEERING GEAR

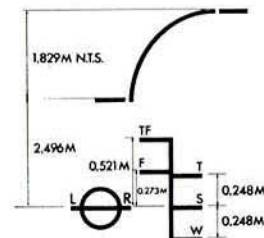
4 Ram electro hydraulic system by Brown Bros.



No. 1 HOLD

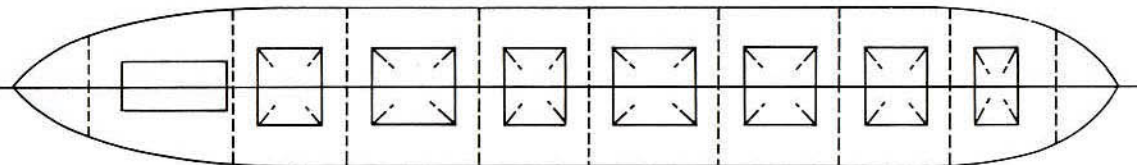
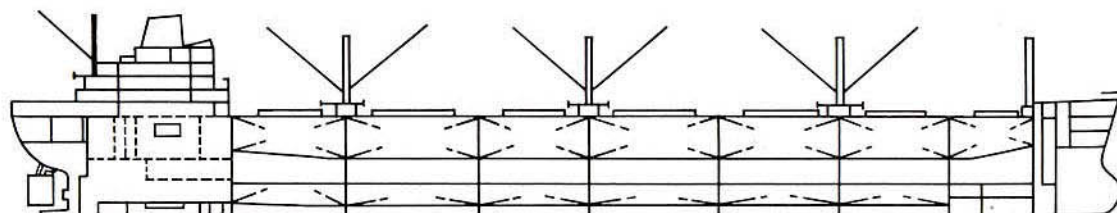


No. 2 TO 7 HOLD



NOTE: BECAUSE OF THE RADIUS OF GUN-WALE ON THIS SHIP, THE FREEBOARD FIGURES SHOWN ON THE CERTIFICATE ARE MEASURED FROM A "DECK LINE" MARKED ON THE SHIP'S SIDE AT 1,829 M BELOW THE LINE OF THE STEEL DECK.

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DEADWEIGHT SCALE									
DISPLAC'T IN SW TONNES	DEADWT IN SW TONNES	DRAUGHT BY METRES	DRAUGHT BY FEET	FREEBOARD FROM STEEL DECK	TONNES PER C.M SW	MCT SW M/TON	LCB FROM METRES	LCF FROM METRES	TRANSVERS AREA METRES
81245	49000	1200	43	40	52.3	71178	9922	9470	1215
80184	48000	80	42	60	52.2	72576	9930	9474	1210
58151	47000	60		80	52.0	71963	9936	9478	1206
58104	46000	40	41	400	51.8	71337	9944	9483	1200
57057	45000	20	40	20	51.7	70684	9954	9489	1200
56038	44000	1200	39	40	51.5	70031	9958	9496	1197
55007	43000	80		60	51.3	69379	9971	9505	1194
53979	42000	60	38	80	51.1	68728	9980	9515	1192
52954	41000	40		500	51.0	68073	9988	9526	1190
51833	40000	20	37	20	50.8	67433	9998	9538	1189
50916	39000	1100	36	40	50.5	65849	10007	9551	1187
49912	38000	80		60	50.5	66258	10017	9555	1185
48910	37000	60	35	80	50.3	65703	10028	9560	1185
47908	36000	40	34	600	50.1	65136	10035	9555	1187
46906	35000	20		20	50.0	64561	10043	9551	1188
45905	34000	1000	33	40	49.8	63984	10054	9558	1190
44917	33000	80	32	60	49.8	63328	10063	9547	1192
43931	32000	60		80	49.5	62558	10072	9567	1195
42945	31000	40	31	700	49.3	61985	10081	9569	1198
41960	30000	20	30	20	49.1	61331	10090	9573	1202
40980	29000	900		40	49.0	60708	10099	9579	1206
40002	28000	80	29	60	48.8	60163	10107	9578	1211
39027	27000	60	28	80	48.7	59647	10115	9585	1218
38053	26000	40		800	48.5	59158	10124	9593	1225
37085	25000	20	27	20	48.4	58695	10133	9600	1233
36116	24000	800	26	40	48.3	58265	10141	9606	1241
35150	23000	80		60	48.2	57832	10149	9604	1251
34185	22000	60	25	80	48.1	57438	10157	9611	1262
33228	21000	40	24	900	47.9	57063	10164	9618	1274
32282	20000	20		20	47.8	56711	10172	9625	1286
31305	19000	700	23	40	47.7	56378	10180	9631	1304
30388	18000	80	22	60	47.6	56031	10188	9638	1325
29481	17000	60		80	47.5	55692	10196	9654	1337
28532	16000	40	21	1000	47.4	55358	10204	9671	1357
27580	15000	20	20	20	47.3	55030	10212	9687	1370
26635	14000	600		40	47.2	54708	10220	9693	1400
25676	13000	80	19	60	47.1	54423	10228	9709	1430
24628	12000	60	18	80	47.0	54150	10235	9726	1459
23689	11000	40		1100	46.9	53791	10243	9752	1492
22755	10000	20	17	20	46.8	53558	10251	9760	1528
21827	9000	500	16	40	46.7	53317	10258	9765	1567
20982	8000	80		60	46.6	52982	10266	9771	1611
19951	7000	60	15	80	46.4	52521	10273	9777	1658
19023	6000	40	14	1200	46.3	52196	10281	9782	1711
18192	5000	20		20	46.2	51854	10288	9787	1759
17204	4000	400	13	40	46.1	51499	10295	9792	1833
16256	3000	80		60	45.9	51123	10303	9797	1906
15349	2000	60	12	80	45.8	50731	10310	9802	1997
14457	1000	40	11	1300	45.6	50207	10317	9808	2078
13565	0	20		20	45.4	49839	10324	9821	2194
12658		300	10	40	45.3	49653	10330	9835	2304
11758		80	9	60	45.1	49372	10337	9849	2436

FREEBOARD PARTICULARS

SEASON	DRAUGHT BY METRES	FREEBOARD AS CERT. METRES	DISPLAC'T. TONNES	DEADWT. TONNES
TROPICAL FRESH	12.561	1975	57690	45390
FRESH	12.313	2223	56240	46160
TROPICAL	12.286	2768	57530	45630
SUMMER	12.040	7496	56240	44160
WINTER	11.792	2763	54950	42650