

M.V. "OTAIO"

NEW ZEALAND SHIPPING COMPANY LIMITED

HISTORY

- 1958 Built by John Brown and Company (Clydebank) Limited in Clydebank.
- 1966 Transferred to the Federal Steam Navigation Company Limited on 28-12-1966 but remained under New Zealand Shipping Company Limited management.
- 1971 Management transferred to the Peninsular and Oriental Steam Navigation Company's General Cargo Division on 01-10-1971.
- 1973 Transferred to the Peninsular and Oriental Steam Navigation Company Limited on 19-04-73.
- 1976 Sold to the Laggan Bay Shipping Company Limited on 21-07-1976. Renamed Eastern Academy and continued her educational role under the Liberian flag.
- 1981 Transferred to the Arabian Maritime Transport Company Limited. Arrived at Karachi and laid up on 18-12-1981.
- 1982 Beached at Gadani Beach on 20-07-1982, and demolition began on 11-10-1982.

GENERAL

OFFICIAL NUMBER 187758

CODE LETTERS GXGB

PORT OF REGISTRY LONDON

TONNAGES

GROSS TONNAGE BRITISH	13314.15
NET TONNAGE BRITISH	6875.26
SUEZ CANAL TONNAGE GROSS	13844.66
SUEZ CANAL TONNAGE NET	9012.04
PANAMA CANAL TONNAGE GROSS	13857.19
PANAMA CANAL TONNAGE NET	7939.93

PRINCIPAL DIMENSIONS

LENGTH OVERALL	526' - 1½"
LENGTH BETWEEN PERPENDICULARS	490' - 0"
BREADTH MOULDED	73' - 0"
DEPTH MOULDED TO UPPER DECK	43' - 0"
SUMMER DRAFT	31' - 6"

DESIGN

CONSTRUCTION	STEEL
ACCOMMODATION	70 CADETS

CAPACITY

GENERAL CARGO					
COMPARTMENT	FRAMES	GRAIN		½ BEAM	
		CU. FT.	TONS AT 40 C.F. TON	CU. FT.	TONS AT 40 C.F. TON
FORECASTLE TWEEN DECK	169 - 181	1480	37	1370	34
NO. 1 UPPER TWEEN DECK	148 - 177	19020	475	17810	445
NO. 1 HATCH COAMING	156 - 167	770	19	770	19
NO. 2 UPPER TWEEN DECK	123 - 148	33950	849	32380	810
NO. 2 HATCH COAMING	128 - 142	1350	34	1350	34
NO. 3 UPPER TWEEN DECK	100 - 123	35220	880	33480	837
NO. 3 HATCH TRUNK	107 - 118	6480	162	6350	159
NO. 4 UPPER TWEEN DECK	45 - 64	22430	561	21650	541
NO. 4 HATCH TRUNK	51 - 62	3630	91	3440	86
NO. 5 UPPER TWEEN DECK	23 - 45	35350	884	33880	847
NO. 5 HATCH TRUNK	28 - 39	3630	91	3440	86
NO. 6 UPPER TWEEN DECK	1 - 23	21590	540	20660	516
NO. 6 HATCH COAMING	10 - 17	690	17	690	17
TOTAL		185590	4640	177270	4431

GENERAL STORES					
COMPARTMENT	FRAMES	GRAIN		½ BEAM	
		CU. FT.	TONS AT 40 C.F. TON	CU. FT.	TONS AT 40 C.F. TON
LINEN STORE MAIN DECK	95 - 97	490	12	460	11
FLOUR STORE	89 - 93	520	13	450	11
BONDED	89 - 93	730	18	630	16
BULK	80 - 89	3360	84	3050	76
LINEN LOCKER BRIDGE DECK	71 - 75	860	22	790	20
BULLION ROOM CAPT ^{NS} BR	95 - 98½	310	8	280	7
TOTALS		6270	157	5660	141

INSULATED CARGO					
COMPARTMENT	FRAMES	GRAIN		½ BEAM	
		CU. FT.	TONS AT 40 C.F. TON	CU. FT.	TONS AT 40 C.F. TON
NO. 1 HOLD	148 - 177	16090	402	15860	397
NO. 1 LOWER TWEEN DECK	148 - 177	12800	320	12680	317
NO. 1 MAIN TWEEN DECK	148 - 177	12160	304	12000	300
NO. 2 HOLD	123 - 148	41590	1040	41280	1032
NO. 2 LOWER TWEEN DECK	123 - 148	33700	843	33630	841
NO. 2 MAIN TWEEN DECK CR.	124½ - 148	9390	235	9310	233
*NO. 2 MAIN TWEEN DECK P & S	123 - 148	14620	366	13280	332
NO. 3 HOLD	103 - 123	46270	1157	45750	1144
NO. 3 LOWER TWEEN DECK	103 - 123	24930	623	24850	621
NO. 3 MAIN TWEEN DECK CR.	104 - 122½	7240	181	7200	180
*NO. 3 MAIN TWEEN DECK P & S	108 - 123	11240	281	10380	259
NO. 3 MAIN LOW TEMP	104 - 108	1960	49	1870	47
NO. 4 HOLD	45 - 67	66650	1666	65980	1649
NO. 4 MAIN TWEEN DECK CR.	46½ - 65	8470	212	8140	203
*NO. 4 MAIN TWEEN DECK P & S	45 - 63	13060	326	12920	323
*NO. 4 MAIN LOCK-UPS	63 - 70	6120	153	6020	150
NO. 5 HOLD	23 - 45	53500	1338	53090	1327
NO. 5 MAIN TWEEN DECK	23 - 45	25010	625	24890	622
NO. 6 HOLD	8 - 23	17430	436	17190	430
NO. 6 MAIN TWEEN DECK	8 - 23	12010	300	11920	298
ULTRA LOW TEMP LOCKER MAIN DK	71 - 78	1170	29	1060	26
TOTALS		435410	10886	429300	10731

* DENOTES A SPACE IS FITTED FOR CARRIAGE OF CHILLED MEAT

INSULATED STORES					
COMPARTMENT	FRAMES	GRAIN		½ BEAM	
		CU. FT.	TONS AT 40 C.F. TON	CU. FT.	TONS AT 40 C.F. TON
POTATO STORE	78 - 83	1030	26	1000	25
VEGETABLE STORE	83 - 88	1100	27	1080	27
MEAT STORE	88 - 95	1390	35	1390	35
BEER STORE	93 - 98	1110	28	1100	27
FROZEN VEGETABLES	94 - 98	500	12	440	11
HANDING ROOM	95 - 98	290	7	290	7
TOTALS		5420	135	5300	132

CHILLED MEAT			
COMPARTMENT	FRAMES	½ BEAM	
		CU. FT.	TONS AT 40 C.F. TON
NO. 2 MAIN TWEEN DK. PORT	123 - 148	6640	166
NO. 2 MAIN TWEEN DK. STB ^D	123 - 148	6640	166
NO. 3 MAIN TWEEN DK. PORT	108 - 123	5190	130
NO. 3 MAIN TWEEN DK. STB ^D	108 - 123	5190	130
NO. 4 MAIN TWEEN DK. SIDES PORT	45 - 63	6460	161
NO. 4 MAIN TWEEN DK. SIDES STB ^D	45 - 63	6460	161
NO. 4 MAIN TWEEN DK. FOR ^D PORT	63 - 70	3010	75
NO. 4 MAIN TWEEN DK. FOR ^D STB ^D	63 - 70	3010	75
TOTALS		42600	1064

OIL FUEL OR WATER BALLAST			
TANK	FRAMES	OIL FUEL TONS AT .92 S.G. 98% FULL	W. B. TONS AT 35 C.F./TON 100% FULL
NO. 2 DOUBLE BOTTOM P. & S.	123 - 148	196.8	224.4
NO. 3 DOUBLE BOTTOM P. & S.	102 - 123	316.2	360.8
E.R FOR ^D DOUBLE BOTTOM P. & S.	87 - 102	307.6	351.0
⊗ NO. 4 FOR ^D DOUBLE BOTTOM P. & S.	56 - 67	76.2	86.9
NO. 4 AFT DOUBLE BOTTOM P. & S.	45 - 56	74.9	85.5
CROSS BUNKER CR. (OVERFLOW 75%)	95 - 108	153.9	
CROSS BUNKER P. & S.	-	595.4	679.4
NO. 4 FOR ^D DEEP P. & S.	60 - 67	201.6	230.0
NO. 4 MID. DEEP P. & S.	53 - 60	172.2	196.6
NO. 4 AFT DEEP P. & S.	45 - 53	148.6	169.4
GRAVITY PORT	95 - 98	27.2	
FOR ^D DAILY SERVICE PORT	75 - 79	28.8	
AFT DAILY SERVICE PORT	71 - 75	28.2	
TOTALS		2327.6	2384.0
⊗ ADAPTED FOR USE AS SLUDGE TANK			

DIESEL OIL		
TANK	FRAMES	D. O. TONS AT .88 S.G. 98% FULL
E.R. AFT DOUBLE BOTTOM P.	67 - 87	160.5
E.R. AFT DOUBLE BOTTOM S.	67 - 87	159.5
TOTAL		320.0

FRESH WATER OR WATER BALLAST			
TANK	FRAMES	F. W. TONS 100% FULL	W. B. TONS AT 100% FULL
FORE PEAK	177 - F. E.	70.9	72.9
NO. 1 DOUBLE BOTTOM	149 - 177	100.9	103.8
NO. 5 DOUBLE BOTTOM	23 - 44	104.9	107.9
AFT PEAK	A. P. - 10	135.9	139.8
TOTALS		412.6	424.4

DRINKING WATER		
TANK	FRAMES	B. W. TONS 100% FULL
NO. 5 DEEP P. & S.	35 - 44	94.2

ENGINES

NUMBER 2 (TWIN SCREW)
 BUILDER JOHN BROWN AND COMPANY (CLYDEBANK) LIMITED
 TYPE 2 CYCLE - SINGLE ACTING [DOXFORD]
 CYLINDERS 6
 BORE 670 MM
 STROKE 2320 MM
 BHP 12400 AT 114 REVS. PER MINUTE

AUXILIARY BOILER

BUILDER JOHN BROWN AND COMPANY (CLYDEBANK) LIMITED
TYPE 4 X DONKEY BOILERS
WORKING PRESSURE 100 LB

REFRIGERATION

REFRIGERATION MACHINES BY J. & E. HALL LTD
INSULATION CORK & FIBREGLASS BY MERSEY INSUL^N. CO. LTD

ELECTRICAL INSTALLATION

GENERATORS
4 SETS DIESEL ENGINE ELECTRIC PLANT CAPACITY EACH 350 KW 220 VOLTS
1 SET GAS TURBINE ELECTRIC PLANT CAPACITY 200 KW 220 VOLTS
1 SET DIESEL ENGINE EMERGENCY PLANT CAPACITY 31 KW 220 VOLTS

RADIO INSTALLATION (MARCONI SYSTEM)
"OCEANSPAN" MAIN HF AND MF TRANSMITTER
"MERCURY"/ELECTRA RECEIVER
"LOADSTONE" DIRECTION FINDER
"VIGILANT" AUTO-ALARM APPARATUS
"RELIANCE" AUXILIARY MF TRANSMITTER

RADAR
RADIOLOCATOR SUPPLIED BY M.I.M.C. CO.

ECHO SOUNDING
VISAGRAPH SUPPLIED BY M.I.M.C. CO.

LIST OF MASTS & SPARS

FOREMAST HEEL TO HOUNDS	68' - 11"	OUTSIDE DIAMETERS	41" - 36"
FOREMAST HOUNDS TO HEAD	28' - 4"	OUTSIDE DIAMETERS	36" - 4½"
MAIN MAST HEEL TO HOUNDS	54' - 0"	OUTSIDE DIAMETERS	22" - 18⅞"
MAIN MAST HOUNDS TO HEAD	29' - 0"	OUTSIDE DIAMETERS	18⅞" - 4½"
2 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 1 HATCH		LENGTH	50' - 0"
4 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 2 HATCH		LENGTH	53' - 0" & 41' - 0"
1 CENTRE DERRICK (STEEL) ON FORE MAST OVER NO. 2 HATCH		LENGTH	67' - 6"
4 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 3 HATCH		LENGTH	51' - 6" & 45' - 6"
4 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 4 HATCH		LENGTH	47' - 6" & 53' - 6"
4 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 5 HATCH		LENGTH	57' - 6" & 56' - 0"
2 SIDE DERRICKS (STEEL) ON DERRICK POSTS OVER NO. 6 HATCH		LENGTH	60' - 0"
SIGNAL YARD ON FORE MAST (STEEL TUBE)	LENGTH	16' - 0"	OUTSIDE DIAR.
GAFF ON MAIN MAST (STEEL TUBE)	LENGTH	15' - 0"	OUTSIDE DIAR.
JACKSTAFF (STEEL TUBE)	LENGTH	12' - 6"	OUTSIDE DIAR.
ENSIGN STAFF (STEEL TUBE)	LENGTH	18' - 0"	OUTSIDE DIAR.
2 SOUNDING BOOMS (STEEL TUBE)	LENGTH	20' - 0"	OUTSIDE DIAR.
2 STORE DERRICKS (STEEL TUBE)	LENGTH	9' - 0"	OUTSIDE DIAR.

PERFORMANCE

SERVICE SPEED 17 kts

SHIP'S COMPLEMENT

DECK OFFICERS	
SCHOOL MASTER	
APPRENTICES	70
RADIO OFFICERS	
DOCTOR	
ENGINEER OFFICERS	
REFRIGERATION ENGINEER OFFICERS	
ELECTRICAL ENGINEER OFFICERS	
BOSUN	
CARPENTER	
PTI	
SEAMANSHIP INSTRUCTOR	
COOKS	
PANTRY MAN	
BAKER	
BUTCHER	
STEWARDS	
DONKEY MAN	
STORE KEEPER	
ABLE SEAMEN	
GREASERS	
LAMP TRIMMER	
TOTAL	