

16
NOV 15 1938
Received at London Office
SECTION
No 965

Date of completion of report 12th September 1938. Port of Newcastle-on-Tyne No. 76890
Survey held at Walker-on-Tyne, Newcastle. Date First Survey 22 Aug / 1937. Last Survey 9 Nov. 1938

On the (State if Machinery Juted Aft and
if Single, Twin or Triple Screw) *Twin Screw* "AMRA" machinery and ships
State Type (Full Scantling, Complete Superstructure
with or without Torpedo Openings) *Full Scantling* State Type of Erections *Shade deck
with Deck Bridge
on top*

TONNAGE under Tonnage Deck...}	4983.16	CLASS + 100 A-1.	State if with freeboard as condition of Class	No	Built at	Walker-on-Tyne - Newcastle
				FEET.		

Do. of space or spaces between Tonnage Dk. and Upper Dk. } Length from fore part of stem to after part of stern } L 440.0 ✓ Launched 7/7/70 Tonnage 1275
post on summer L.W.L. See Sec. 3 (1a) }
B 61.0 ✓ Builders Swan Hunter & Wigham Richardson Ltd

Total		Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)	D 36.25	Owners	British India S. N. C. Ltd.
Gross Tonnage	8313.76				

Register Tonnage 3993.03

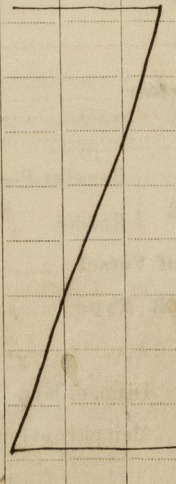
1st Longitudinal Number (L × D).....=

2nd Numeral L × (B + D).....=

Managers.....
(Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS.		Framing Depth "d," at middle of length. See Sec. 3 (1d)		Residence	
FEET.					
Length	444.6	Proportions—Depth to Length—Uppermost continuous deck to top of keel	12.14	Port of Registry London	
Breadth	61.25	Do. Long Bridge to top of keel	9.95 to upper Bridge deck	If surveyed while building, afloat, or in dry dock	
Depth	25.20	Draught Moulded	23' 7 1/2"	Building, afloat & in dry docks.	

FRAMES. DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	31 ✓		Bracket Floors, Frame	7 3½ .37 ✓
" " from ¾ length to Collision bulkhead.....}	24 ✓		" " Reversed Frame	7 3½ .33 ✓
" " in peaks	24 ✓		" " Vertical Struts	8 3½ .34 ✓ 7 3½ .33 ✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43½ x .54 ✓
Frame Amidships, Angle E or C	10 3½ .40 ✓		" " top Angles	3½ 3½ .48 ✓
" " Extends up to	3rd deck ✓		" " bottom Angles	4½ 4½ .54 ✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	1 - .38 ✓
" " Extends up to ...	✓		Margin Plate depth (excl. of flange) and thickness	34½ x .54 ✓
Depth of Framing Girder.....	10" ✓		" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem	2½ 3½ .45 ✓
Frames in Uppermost Continuous 'tween Decks, Angle E or C	6 3½ .32 ✓		" " Vertical Angle to Tank side Bracket forward ¼ len. from stem	3½ 3½ .45 ✓
" " Second 'tween Decks, Angle E or C	8 3½ .47 ✓		" " Gussets, spacing and scantling abaft ¼ len. from stem.....}	6 6 .45 ✓ in Panting and
" " Third " " " "	6 3½ .32 ✓		" " Gussets, spacing and scantling forward ¼ len. from stem.....}	.42 every or continuous
Framing in Peaks, Angle or C	8 3½ .35 ✓	7 x 3 x .44 ✓	Tank Side Brackets, height above base line at toe of Frame and thickness)	.42 every or continuous 67 x .42 ✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5½ side ✓		INNER BOTTOM PLATING.	
State if Frame Joggled	yes ✓		Breadth and thickness of Middle Line Strake ...	53½ x .57 ✓ 52
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	as per approved plan ✓		Thickness of remainder in Holds	44 .56 under hatchways 52
STRENGTHENING OF BOTTOM FORWARD. State Particulars	as per approved plan ✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?.....}	yes ✓
SINGLE BOTTOM.			BEAMS.	
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships) in Wells, Angle E or C	9 3½ .375 ✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle E or C	9 3½ .375 ✓ 40
Middle Line Keelson, on Floors, Angles, C or C			Spacing	31"
" " Through Plate or Intercoastal Plate...}			Second Deck, amidships, Angle E or C	9 3½ .375 ✓ 40
" " Foundation Plate on Floors			Spacing	31"
" " Flat Plate Keel Angles			Third Deck, amidships, Angle E or C	9 3½ .45 ✓ and 10 5½ .43 ✓
Side Keels, No. each side			Spacing	31"
" " thickness of Intercoastal Plate...			Fourth Deck, amidships, Angle C or C	✓
" " Angles			Spacing	✓
DOUBLE BOTTOM.			Poop Deck, Angle C or C	✓
Solid Floors, thickness and spacing .....	.42 alternate frame yes	Every 3rd ✓	Spacing	✓
" " Are Frame and Reversed Frame joggled?.....}	Rev " no		Bridge Deck, Angle E or C	9 3½ .375 ✓ 40
Bracket Floors, breadth and thickness at middle line..... }	35 ¾ x .42	33 x .42 ✓	Spacing	31" 2020
" " breadth and thickness at margin plate.....}	33 x .42 ✓		Forecastle Deck, Angle E or C	9 3½ .50 ✓
			Spacing	Epping's Re ✓

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	Two	✓	Stringer Plate, breadth and thickness in way of Bridge .....	.43	✓
" in 'tween Decks, Size and Spacing	wide	✓	Thickness of Plating abreast Deck openings in way of Wells .....	.39	✓
" " " " " "	Spaced	✓	Thickness of Plating abreast Deck openings in way of Bridge .....	.41 abreast the casing	✓
" in Holds " "	as	✓	Thickness of Plating within line of openings...	.34	✓
" " " " " "	approved	✓	If Sheathed, material and thickness	2 1/2" teak exposed	✓
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	-		Stringer Plate, breadth and thickness.....	60 x .38	49 1/2 x .38
Plating, thickness of	-		If Plated, state thickness.....	.34 abreast openings	.32 elsewhere
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck. (Shade B²)			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	62 x .68	✓	If Plated, state thickness	✓	
" " " " in way of Bridge	.43	✓	Poop Deck.		
" Angle in Wells	6 6 .68	✓	Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells .....	.47	✓	Plating, Sheathing, material and thickness ..	✓	
Thickness of Plating abreast Deck openings in way of Bridge .....	.39	✓	Bridge Deck.		
Thickness of Plating within line of openings...	.42 clear Bridge	✓	Stringer Plate, breadth and thickness.....	58" x .47	62 x .46
If Sheathed, material and thickness .....	.34 inside	✓	Plating, Sheathing, material and thickness ..	2 1/4" teak exposed	✓
	2 1/2" teak exposed	✓	Forecastle Deck.		
Second Deck. (Fairboard B²)			Stringer Plate, breadth and thickness.....	35 1/2 x .37	✓
Stringer Plate, breadth and thickness in Wells...	70" x .43	49 1/2 x .43	Plating, Sheathing, material and thickness ..	.30 bare steel	✓



SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	52½	79	69	69		Double	7/8	3½	✓ Quad	1	4	✓ Lapped
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes .....4.		61	50	50		Double	7/8	3½	✓ Quad	7/8	3½	✓ Lapped
BILGE PLATING, No. of Strakes .....1.		61	50	50		Double	7/8	3½	✓ Quad	7/8	3½	✓ "
SIDE PLATING, No. of Strakes .....3.		61	47	47		Double	7/8	3½	✓ Triple	7/8	3/8	✓ "
UPPER DECK, Sheer- strake in Wells.....	60	72	47	47	Rule = 51 x 74 Doubled in way of shell openings as appd.	-	-	-	✓ Quad	7/8	3½	✓ "
UPPER DECK, Sheer- strake in Bridge ...		61	47	47		Double	7/8	3½	✓ Triple	7/8	3/8	✓ "
STRAKE BELOW Sheer- strake in Wells.....	67½	68	47	47	Rule = 51 x 69	Double	7/8	3½	✓ Quad	7/8	3½	✓ "
STRAKE BELOW Sheer- strake in Bridge ...		61	47	47		Double	7/8	3½	✓ Triple	7/8	3/8	✓ "
POOP SIDE PLATING		✓	✓	✓		✓	✓	✓		✓	✓	✓
BRIDGE SIDE PLATING ...		56				✓	✓	✓	✓ Triple	7/8	3/8	✓ Lapped
FOREC'TLE SIDE PLATING			43			Single	¾	3	✓ Single	¾	2 5/8	✓ "

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	1
„ Deck next below	8 (564 dkt).
As per Rule	7

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	rolled bar ✓	10 x 22 ✓ 		
STERN FRAME { Propeller Post ... } { Rudder " ... }	cast steel ✓	10 x 22 1/2 ✓ 	Nederlandse Staalfabrieken ✓	
Speed of Vessel		17 knots ✓		
RUDDER—Type				
" A x D 54x5 ✓				
" Diam. of head		12 1/8 ✓	Dempster & Co. Inc.	
" Mainpiece at top pintle		13 3/4 ✓	Fargo Co.	
" " heel ...		9 ✓		
" how constructed		arms shrouk + Keyed 6 mainpieces		
" double or single plate		1-12 Single plate ✓		
" coupling, vertical or horizontal		Lor. coupling ✓		

STIFFENERS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks		26 ✓	5" x 3" x 30' ✓	30" ✓		
"	" Second "					
"	" Third "					
"	" Holds	45" x 39" ✓ 6" x 29" ✓	10" x 3 1/2" x 40' ✓	30" ✓		
COLLISION		47" x 33" ✓	7" x 3" x 33' 6" ✓ 6" x 3 1/2" x 28' 3" ✓	24" ✓		
AFTER PEAK		49" x 30" ✓	7" x 3" x 44' 6" ✓ 4 1/2" x 3" x 34' 6" ✓	24" ✓		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open hearth*
Consett Iron Co., South Durham S. & Co., Dorman Long & Co., Appleby Frodingham Steel Co., Skinningrove Iron Co., Colville & Co.,
Rainie & Co., Steel Co of Scotland, Cargo Fleet Iron Co., Lanarkshire Steel Co.
 Has the Steel been tested as required by the Rules? *Yes.*

leave out (TAYCO)

EQUIPMENT No 45900 V												LETTER C F	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
✓ 37875	1st Bower ...	81	1	14	stockless			59	10	-	-		Ryno Imp. Stockless	not stated	Sld. 22/12/37 J.A. Butler
✓ 37864	2nd „ ...	81	0	7	✓	“		59	10	-	-		“ “ “	“ “	Sld. 20/12/37 “
✓ 37865	3rd „ ...	80	3	21	✓	“		59	-	-	-		“ “ “	“ “	Sld. 20/12/37 “
	Collective weight.	243	1	14	✓							219½ ✓			
✓ 97251	Stream	22	1	17	✓	5	2	16	22	15	-	22 ✓	Rodgers Patent W.J. anchor	S. Taylor & Son	Nethulin 31/3/38 J. Kelly.

CHAIN CABLES.										HAWSERS AND WARPS.					
Number of Certificate.	Length and size supplied.	Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.
	Length. Diam.	Statio- tory.	Break- ing.	Supplied.	Per Rule.			Length. Diam.					Length. Cir.	Tons.	Length. Cir.
✓ 89053	300 2 3/8	113 1/2	159 1/2	7 1/2	2 1/2	16		300 2 3/8	Stock Tayco	S. Taylor & Sons	Nethulin 12/4/38 J.A. Kelly	TOWLINE	130 5 1/2	✓ 77.5	130 5 1/4
✓ 89074	2-7/8 2 1/4	113 1/2	159 1/2	34	2.3				"	"	Nethulin 15/4/38 J.A. Kelly	HAWSERS & WARPS	490 3	✓ 18.6	
✓ 89072	45 2 3/8	"	"	109	3.0				"	"	Do	"	490 4	✓ 33.2	
✓ 89073	45 2 3/8	"	"	109	1.21				"	"		"	2-100 8"	manila	2-100 8"
Iron Stream Chain - Steel Wire	120 4 1/2			58.6				120 4 1/2							

Steering Gear, Steam operated by 4 rams 12 slit lipboats 30" x 10" x 10" x 3" x 4" 2 motors 2 pumps } Emergency stand-by unit. 2 rams can be isolated remaining 2 used for steering.

Boats 4 " 28'0" x 8'6" x 3'0" Steering Chains, Size and Test } Windlass Electric

Ceiling in Holds, thickness and material 2 1/2" w.w. on bilges only Cargo Battens, thickness, material and spacing 6x2 w.w. 9" apart.

Cargo Hatchways. (Upper Deck) steel plate angles Thickness of Hatches 3" + 2 1/2"

Size of No. 1 Hatchway (Forward) 20'3" x 16'0" No. 2 25'10" x 16'0" No. 3 18'1" x 16'0" No. 4 18'1" x 16'0" No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters 3 4 3 3

FOR THE BUILDERS & ROYAL RICHARDSON, LTD.
Builder's Signature *Robt Morrison*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel No.

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been constructed in accordance with the approved plans, the Secretary's letters & generally conforms with the Society's rules for the class contemplated. ✓ The materials & workmanship are good.

All double bottom tanks, fore & aft peak tanks, & F.W. tanks in way of tunnel have been tested as required by the rules & found satisfactory. ✓ The weather decks, watertight bulkheads, watertight doors, & tunnel have been hoisted and found satisfactory. ✓

Three insulated cargo chambers have been satisfactorily fitted in No. 3 lower tween deck and one in tween deck above. ✓

The assigned faceboards have been marked on the vessel's side, verified & cut in.

The amount of Entry Fee £ 11 : - : - Fees applied for, 15 NOV 1938

Special Survey Fee £ 407 : 17 : - Received by me, 19/11/38

Travelling Expenses, if any £ : : : mk 23/11

State whether the Vessel has been built under Special Survey 46

I am of opinion the Vessel should be Classed + 100 A.I. ✓

Signature *W. J. Craig* Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Newcastle Date of issue 25/11/38

Committee's Minute TUE 22 NOV 1938

Character assigned + 100 A.I.

Lloyd's Assoc + LMC 11.38 SU

F.D. CL.

Intel

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GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The approved plans (43 in number) including Midship Section & Profile & decks (as fitted) are forwarded herewith ✓

Forging reports forwarded.

Kindly return approved plans for use in the sister vessel No 1596 now building

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Cruiser stern

Refrig.

(P) = Passenger ship

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Weight and pins	Surveyor's Initials	No of Cuts	Date of Test
	1st Bower	51-2-0 ✓	J.F.R.	3062	19. 11. 37.
	2nd "	51-3-14 ✓	J.F.R.	3065	19. 11. 37.
	3rd "	51-2-0 ✓	J.F.R.	3064	19. 11. 37.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., { Bridge 189.5 ft., Forecastle 44.75 ft. }
(in feet and tenths). When the Poop and Forecastle are joined to the B.D., this should be distinctly stated ^{yes} _{named shade deck}
Over-all Length 461'-1" ✓

No. and Material of Decks { Shade dk. steel & wood sheathed.
one dk. steel & wood sheathed
one dk. steel } 2 Dks. B

Official No. 166600 ; Signal Letters G.N.N.X. Is bottom of vessel coated with cement ^{yes} ✓ if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Salt water Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Salt Tons.
Double bottom, aft,	93.0 ✓	186 ✓	Fore peak tank,	23.6 ✓	78 ✓
Double bottom, under Engines and Boilers,	118.8 ✓	546 ✓	After peak tank,	26.0 ✓	133 ✓
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	160.5 ✓	436 ✓	Other tanks, if fitted, F.W in way of tunnel (If necessary, furnish further information by sketch.)		80 ✓
Total capacity of double bottom		1168 ✓			

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 5553
Date 10.9.37
Dates of Surveys held while building
1937 Aug. 12. 16. 31. Sep. 16. 21. 22. 23. 29. 30. Oct. 11. 21. 26. 29. Nov. 2. 3. 4. 5. 8. 10. 15. 18. 19. 23. 24. 25. 29. Dec. 1.
1938 Jan. 5. 13. 14. 17. 18. 20. 24. 25. 28. 31. Feb. 2. 7. 8. 10. 11. 14. 17. 18. 21. 22. 23. 24. 25. 28. Mar. 2.
Apr. 4. 5. 6. 7. 8. 12. 13. 18. 19. 26. 28. 29. 30. May 3. 5. 6. 9. 11. 24. 26. 27. 30. June 1. 2.
3. 7. 9. 14. 31. July 7. 14. 22. 28. Aug. 2. 3. 5. 19. 22. 24. 29. 30. Sep. 8. 9. 15. 19. 23. 28. Oct. 4. 6. 10. 11. 13.
17. 18. 20. 21. 25. 28. Nov. 3. 9.
Total No. of Visits 127