

STEEL STEAMER or MOTORSHIP.

Received at London Office

MAY 28 1941

State if Report has been sent on the Freeboard of the Vessel Yes

State if Report is sent on the Machinery of the Vessel Yes

Date of completion of report 27/3/41

Port of NEWCASTLE ON TYNE

No. 99305

Survey held at Walker-on-Tyne

Date First Survey 12 Sept 1939

Last Survey 21st March 1941

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Twin Screw "ARONDA"

Machinery Amidships.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling.

State Type of Erections Shade deck with Filler & Bridge above.

TONNAGE under Tonnage Deck

4983.16

CLASS + 100 A.1.

State if with freeboard as condition of Class

No

Built at Walker-on-Tyne.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

Gross Tonnage

9030.81

Register Tonnage

4463.12

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a)

L 440'-0"

Breadth (greatest moulded)

B 61'-0"

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'-3"

1st Longitudinal Number (L x D)

=

2nd Numeral L x (B + D)

=

Framing Depth "d," at middle of length. See Sec. 3 (1d)

16.63'

Proportions—Depth to Length—Uppermost continuous deck to top of keel

12.14'

Do. Long Bridge to top of keel

9.956

Draught Moulded

23'-7 1/2"

Launched 5th August 1940 Yard No. 1640

Builders Evan Hunter & Wigham Richardson Ltd.

Owners British India Steam Navigation Co. Ltd.

Managers

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

Residence

Port of Registry London

If surveyed while building, afloat, or in dry dock

Yes.

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	B.A. 7 3 1/2 .37	✓
" " from 1/2 length amidships to Collision bulkhead	27	✓	" " Reversed Frame	B.A. 7 3 1/2 .33	✓
" " in peaks	24	✓	" " Vertical Struts	B.A. 7 3 1/2 .33	✓
DE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x .54	✓
Frame Amidships, Angle, E or C	10 3 1/2 .40	✓	" " top Angles	3 1/2 3 1/2 .48	✓
" " Extends up to	3 rd deck	✓	" " bottom Angles	4 1/2 4 1/2 .54	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	one .38	✓
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	34 1/2 x .54	✓
Depth of Framing Girder	10"	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .45	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	6 3 1/2 .32	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	3 1/2 3 1/2 .45	✓
" " Second 'tween Decks, Angle, E or C	8 3 1/2 .47	all.	" " Gussets, spacing and scantling abaft 1/2 len. from stem	.42 continuous	✓
" " Third " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	.42 continuous	✓
" " from 1/2 len. for'd. to 15% len. from Stem	10 3 1/2 .50	B.A. ✓	Tank Side Brackets, height above base line at toe of Frame and thickness	67 x .42	✓
" " in Peaks, Angle or C	8 3 1/2 .35	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 - 5 3/4	✓	Breadth and thickness of Middle Line Strake	53 1/2 x .57	✓
State if Frame Joggled	Yes	✓	Thickness of remainder in Holds	5.44	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes as approved	✓	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	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes as approved	✓	BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships	9 3 1/2 .375	✓
Floors, Depth and thickness at mid-line in Holds			" " in Wells, Angle, E or C	9 3 1/2 .375	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or C	9 3 1/2 .40	✓
Middle Line Keelson, on Floors, Angles, C or E			Spacing	31	✓
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, E or C	9 3 1/2 .375	✓
" " Foundation Plate on Floors			Spacing	31	✓
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, E or C	9 3 1/2 .45	✓
Side Keelsons, No. each side			Spacing	31	✓
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, C or E	✓	
" " Angles			Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, C or E	✓	
Solid Floors, thickness and spacing	.42 all.	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	Frame Yes Rev. No	✓	Bridge Deck, Angle, E or C	9 3 1/2 .375	✓
Bracket Floors, breadth and thickness at middle line	35 x .42	33 x .42	Spacing	31	✓
" " breadth and thickness at margin plate	33 x .42	✓	Forecastle Deck, Angle, E or C	9 3 1/2 .375	✓
			Spacing	Every frame	✓

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.	Number of Certification
PILLARS, No. of Rows.....	Two ✓		Stringer Plate, breadth and thickness in way of Bridge	75 1/2 x .40 ✓	3974
„ in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells .....	.39 ✓	3974
„ „ „ „ „	Wide spaced as approved. ✓		Thickness of Plating abreast Deck openings in way of Bridge .....	.41 ✓	9892
„ in Holds „ „			Thickness of Plating within line of openings...	.34 ✓	
„ „ „ „ „			If Sheathed, material and thickness	2 1/2 inch exposed in alley ways. ✓	11242
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....	60 x .38 ✓	11242
Plating, thickness of			If Plated, state thickness.....	.34 abreast openings .32 inside ✓	11242
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck. Shade dk.			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 of Bridge .34 inside ✓		Stringer Plate, breadth and thickness.....	58 x .47 ✓	
If Sheathed, material and thickness	2 1/2 inch exposed. ✓		Plating, Sheathing, material and thickness ...	.40 - 2 1/4 exposed. ✓	
Second Deck. Fairland dk.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	70 x .43 ✓		Stringer Plate, breadth and thickness.....	35 1/2 x .37 ✓	
			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. NO			BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.	
	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	52 1/2 ✓	.79 ✓	.69 ✓	.69 ✓		Double ✓	7/8	3 1/2	4R ✓	1	4
„ DELG. (if any)											
BOTTOM PLATING, No. of Strakes ..4.....	87 ✓	.61 ✓	.50 ✓	.50 ✓		2R ✓	7/8	3 1/2	4R ✓	7/8	3 1/2
BILGE PLATING, No. of Strakes ..1.....	84 ✓	.61 ✓	.50 ✓	.50 ✓		2R ✓	7/8	3 1/2	4R ✓	7/8	3 1/2
SIDE PLATING, No. of Strakes ..3.....	86 3/4 ✓	.61 ✓	.47 ✓	.47 ✓		2R ✓	7/8	3 1/2	3R ✓	7/8	3 1/8
UPPER DECK, Sheer-strake in Wells.....	60 ✓	.72 ✓	.47 ✓	.47 ✓					4R ✓	7/8	3 1/2
UPPER DECK, Sheer-strake in Bridge ...		.61 ✓	.61 ✓	.47 ✓		2R ✓	7/8	3 1/2	3R ✓	7/8	3 1/8
STRAKE BELOW Sheer-strake in Wells.....	67 1/2 ✓	.68 ✓	.47 ✓	.47 ✓		2R ✓	7/8	3 1/2	4R ✓	7/8	3 1/2
STRAKE BELOW Sheer-strake in Bridge ...		.61 ✓	.47 ✓	.47 ✓		2R ✓	7/8	3 1/2	3R ✓	7/8	3 1/8
POOP SIDE PLATING											
BRIDGE SIDE PLATING ...		.56 ✓							3R ✓	7/8	3 1/8
FORECASTLE SIDE PLATING			.43 ✓			1R ✓	3/4	3	1R ✓	3/4	2 5/8

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) *one* ✓„ Deck next below *Eight - Fld. dk.* ✓As per Rule *Seven*

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	.26 ✓	5 x 3 x .30	30 ✓				
„ „ Second „							
„ „ Third „	.45 ✓	3 A. ✓					
„ „ Holds .....	.32 ✓	39 10 x 3 1/2 x .40	30 ✓				
„ „ „		7 x 3 x .33	24 ✓				
COLLISION „ (in Hold) .....	.47 ✓	6 x 3 1/2 x .28	24 ✓				
„ „ „		7 x 3 x .40	24 ✓				
AFTER PEAK „ „ .....	.42 ✓	30 4 1/2 x 3 x .34	24 ✓				

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM				
STERN FRAME { Propeller Post ... } Cast ✓				
{ Rudder „ } Steel ✓				
Speed of Vessel	17 knots ✓			
RUDDER—Type				
„ A x D	54.5 ✓			
„ Diam. of head	12 1/8 ✓			
„ Mainpiece at top pintle	13 3/4 ✓			
„ „ heel ...	9 ✓			
„ how constructed	arms shank & keyed to main piece ✓			
„ double or single plate coupling, vertical or horizontal	1.12 Single plate ✓			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Consell Iron Co; Donnan & Co; South Durham Steel & Iron Co. Ltd; Appleby Frodingham Steel Co. Ltd; Colvilles; Congo Steel Iron Co. Ltd; Raines & Co; Skinningrove Iron Co. Ltd; Lancashire Steel Co;*

Has the Steel been tested as required by the Rules? *yes.* ✓

EQUIPMENT No 48900

LETTER C of Tayco.

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, IN 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.	qrs.			
39747	1st Bower ...	81	0	0	-	-	-	59	0	0	0	17 1/2	0	Byers Improved Stockless	✓ L.P.H.S. 7/5/40. W.V. Norman.	
39748	2nd „ ...	80	3	14	-	-	-	59	0	0	0	17 1/2	0	Do	✓ L.P.H.S. 7/5/40. W.V. Norman.	
	3rd „ ...											65 3/4				
	Collective weight.											219 3/4				
98929	Stream	22	1	10	5	2	20	22	13	0	14	22		Nodgers (Forged W. Iron)	S. Taylor & Son L.P.H.N. 11/8/40. J.A. Relf.	

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.	Stations.	Break-ing.	Supplied.	Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.
12422	300 1/8	2 1/8	113 1/5	159 3/10	731-2-20			300	2 1/8	Stait Tayco	S. Taylor & Son	L.P.H.N. 10/5/40. J.A. Relf.	TOWLINE	130	5 1/4	77-5	130	5 1/4
12425	12-7 fms	2 1/8	113 1/5	159 3/10	35-0-9	✓				Do	Do	L.P.H.N. 10/5/40. J.A. Relf.	HAWSERS & WARPS	4-90	3	18-6		
12424	45	2 1/8	113 1/5	159 3/10	110-2-7	✓				Do	Do	L.P.H.N. 10/5/40. J.A. Relf.		4-90	4	33-2		
12423	45	2 1/8	113 1/5	159 3/10	109-3-7	✓				Do	Do	L.P.H.N. 10/5/40. J.A. Relf.		4-120	8	4-120	8	
	on Stream Chain or Steel Wire	120	4 1/2	✓	58-6	✓		120	4 1/2	6/24	✓			4-120	7			

Electric hyd. double arms on Tiller.

Steering Gear, Type (Power or hand) operated by 4 cams, 2 motors, 2 pumps.

Alternative Means of Steering

Emergency stand-by unit. 2 gals. can be isolated - remaining 2 used for steering.

Steering Chains (Size and Test)

Windlass

Electric

Boats

TANKTOP PLATING INCREASED IN THICKNESS UNDER HATCHWAYS IN LIEU OF CEILING

Ceiling in Holds, thickness and material 2 1/2 W.W. over bilges only

Cargo Battens, thickness, material and spacing

6 x 2 W.W. 9' apart, clear of 3' battens.

Cargo Hatchways. (Upper Deck) Steel plates & angles.

Thickness of Hatches

3 x 2 1/2"

See letter 8.4.41

Size of Hatchways No. 1 (Fwd.) 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

Number of Shifting Beams and for Fore and Afters

3

4

3

3

FOR

OWAN, HUNTER & WIGMAN RICHARDSON, LTD.

Builder's Signature

Thos Morrison
DIRECTOR

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 (where required to be inserted in the Notation).

This vessel has been constructed in accordance with the approved plans, The Secretary's letters, and generally conforms with the Society's Rules for the class contemplated.

The materials and workmanship are good.

All double bottom tanks, forward and after peak tanks and fresh water tanks in way of tunnel have been tested as required by the Rules and found satisfactory.

The weather decks, watertight bulkheads, watertight doors and tunnel have been tested and found satisfactory.

The insulated cargo chambers have been satisfactorily fitted in No. 3 lower tween decks, and one in tween deck above.

The assigned freeboards have been marked on the vessel's sides, Verified and cut in.

The windlass and steering gear tried under power (war conditions), and found satisfactory.

The amount of Entry Fee £ 11 : 0 : 0

Fees applied for,

(Special notations, where part of class, to be stated.)

Special Survey Fee.... £ 425 : 15 : 6

Received by me,

I am of opinion the Vessel should be Classed + 100 A.1.

Travelling Expenses, if any £

Freeboard

20 0 0

19

State whether the Vessel has been built under Special Survey

Yes.

Signature

E.H. Dean

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to NEWCASTLE-ON-TYNE Date of issue

15/4/41

Committee's Minute

Character assigned

+ 100 A.1

Lloyd's arch.
Ox.+ Lmb 3.41 32, 09.
3 W.T.B. 450k (Spt. 440k)Mike Gp
" Mch
" Mch

R

L

© 2020

Lloyd's Register
Foundation

0/86 2/2

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 (6 in number) together with the approved plans of the sister vessels "AMRA" S.H.W.R. 15-70 vessel and "ASKA" S.H.W.R. 15-96. are forwarded herewith together with four forging reports.

PARTICULARS OF ELECTRIC WELDING (if employed) Any welding carried out has been done with approved electrodes and in accordance with rule requirements.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Cruiser Steam. Lloyd's A.R.C.P. 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 W. 46-0-18; Init. J.D.; No. of Cert. 2769; Date 20-4-40.
2nd " 46-0-4; " J.D.; " 2763; " 20-4-40.
3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge 187.5 ft., Forecastle 46.75 ft. (in feet and tenths). When the Poop and Forecastle are joined to the B.D., this should be distinctly stated yes forming single deck.
Official No. 168076 Signal Letters B.C.G.F. Extreme Breadth over Belting (Circ. 1611) Over-all Length 461'1" (Circ. 1709)
No. and Material of Decks Shade dk. steel, pt. leak sheathed; one dk. steel, pt. leak sheathed; one dk. steel.
Parts of Bottom of Vessel coated with cement or approved composition Double bottom tanks & peaks cemented.
Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, see plans	93'0"	186	Fore peak tank,	23'6"	78
Double bottom, under Engines and Boilers, 118'8"	108'8"	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. tanks between tunnels	20'6"	52
Total length (if continuous) and Capacity	372'3"	1168	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 5585
Date 7.6.39.
Dates of Surveys held while building
1939
Sept. 12, 20, 25, 27, Oct. 2, 3, 4, 5, 6, 9, 10, 12, 13, 16, 17, 20, 23, 25, 26, 30, Nov. 1, 3, 6, 8, 21, 22, 23, 24, 27, 28, 29, 30, Dec. 1, 4, 5, 7, 12, 14, 15, 18, 21, 22, 28, 1940
Jan. 3, 4, 11, 16, 23, 24, 25, 26, 29, Feb. 2, 5, 6, 14, 21, 22, 26, 29, Mar. 5, 13, 14, 19, 20, 28, Apr. 1, 2, 3, 4, 10, 12, 15, 18, 19, 25, 30, May 6, 15, 20, 28, 30, June 3, 4, 24, July 5, 9, 17, 22, 31, Aug. 5, 7, 19, 20, 22, 23, 1941
Jan. 2, 10, 16, 21, 28, Feb. 2, 17, 18, 24, Mar. 3, 7, 11, 14, 21, Total No. of Visits 11