

for 2 Dks., R.Q.Dk.,
and Pt. Awng. Dk.

STEEL STEAMER.

Received at London Office.

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

Date of completion of Report 19. 3. 95

Port of WEST HARTLEPOOL

Date, First Survey 23rd July, 1894

Last Survey 11th March, 1895

No. 9620 Survey held at WEST HARTLEPOOL
On the Screw Steamer "RAS ROWA"

Rig Fore Mast Schooner (2 masts)

TONNAGE under
Tonnage Deck... 2188.89

ONE OR TWO DECKED VESSEL.

Master J. Deason

Do. of Poop 184.35

CLASS 100A1

Year of appointment (1) As master in service of owner of present vessel: 1895 (2) As master of this vessel: 1895

Do. of Raised Qr. 184.35

Do. of Break. 184.35

Do. of Bridge House 184.35

Do. of Forecastle 184.35

Do. of Houses on Deck 48.83

Do. of excess of Hatchways 27.57

Do. above Crown of Engine Room 2839.53

Gross Tonnage 2839.53

Less Crew Space 64.11

Less above Crown of Engine Room 2775.42

TONNAGE FOR FEES 2775.42

Less Engine Room 908.65

Less Navigation Spaces 36.57

Net Tonnage 1830.20

Half Breadth (moulded) 20.17

Depth from upper part of Keel to top of Main Deck Bms. 24.66

Girth of Half Midship Frame (as per Rule) 40.00

1st Number 84.83

Length 312.33

2nd Number 264.95

Proportions—Breadths to Length 7.7

Depths to Length—Main Deck to top of Keel 12.6

Built at West Hartlepool

When built 1894-95 Launched 28th Jan. 1895

By whom built Furness Withy & Co. Ltd.

Owners The Ras Steam Shipping Co. Ltd.

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

Residence 123 Bishopsgate St. Within London E.C.

Port belonging to London

Destined Voyage Bombay via Suez & London & Surveyed while Building, Afloat, & in Dry Dock

LENGTH on Deck Feet. 312 Inches. 4 BREADTH—Feet. 40 Inches. 4 DEPTH—Feet. 21 Inches. 4 Power of Engines 235 Horse. No. of Decks with Flat laid No. of Tiers of Beams 2

Dimensions of Ship per Register, Length, 314.2 breadth, 40.5 depth, 21.3 Moulded Depth, ft. 23 ins. 10 Round of Beam 10 inches.

FRAMING.

	Inches in Ship.	Inches in Ship.	16ths or 20ths per Rule Or as Appro.	Inches in Ship.	Inches in Ship.	16ths or 20ths per Rule Or as Appro.
FRAME, Angles, 7 ¹ / ₂ [Bars, for 3 length amidships]	6 1/2	3 1/2	11	6 1/2	3 1/2	11
Do. for 1/2 at each end	"	"	10	"	"	10
Do. in way of Double Bottoms at Solid Floors	7 1/2	8 1/2	8 1/2	7 1/2	8 1/2	8 1/2
" " at intermdt. Bkts.	7 1/2	8 1/2	8 1/2	7 1/2	8 1/2	8 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	24			24		
REVERSED FRAME, Angles						
DEEP FRAMING, depth of girder						
FLOORS, depth and thickness of Floor Plate at mid-line for 3 length amidships	40	9	40	9		
" in way of Engines and Boilers	40	8	40	8		
" thickness at the ends of vessel						
" depth at 1/2 the half breadth, as per Rule						
Height extended at the Bilges						
FLOORS & BRACKETS, in Cell Dble Bottoms			8			8
" " Distance apart						
CENTRE GIRDER, in Double Bottom, depth and thickness	40	10	40	10		
" " Angles, Top	4	4	9	4	4	9
" " " Bottom	4 1/2	4	9	4 1/2	4	9
SIDE GIRDERS, number and thickness	one	9	one	9		
" " Angles						
MARGIN PLATE, depth (exclusive of flange) and thickness	29	8	29	8		
" " Angles	4	3	8	3 1/2	3 1/2	8
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	63	9	63	9		
" " thickness in Engine and Boiler space	Iron	8 1/6	Iron	8 1/6		
" " Remainder in Holds						
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	6	9	9 1/2	9	
" " Angles on Upper Edge						
Average space	48			48		
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	9	9	
" " Angles on Upper Edge						
Average space	48			48		
BEAMS, Hold, Plate or Tee Bulb	15	10	15	10		
" " Angles on Upper Edge	5	4	9	5	4	9
" " Angle space	As approved			As approved		
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	14	10	14	10		
" " Angles on Upper Edge	5	4	9	5	4	9
" " Angle space	As approved			As approved		
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	7	5 1/2	3	7
" " Angles on Upper Edge						
Average Space	24			24		
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb						
" " Angles on Upper Edge						
Average space						
PILLARS, In 'tween Decks, Size and Spacing	7/16 Steel from division			7/16 Iron from division		
" " Hold						
" " Quarter 'tween Dks.						
" " in Hold						
WEB FRAMES, In Fore Body, No. and Spacing	Iron - 7 Frame spaces					
" " " Brdth. & Thickness	21	8	21	8		
" " No. of Side Stringers	Three			Three		
WEB FRAMES, In E. & B. Space, No. & Spacing	2 1/2 - 4 1/2 spaces					
" " " Brdth. & Thickness	21	8	21	8		
WEB FRAMES, In After Body, No. and Spacing	2 1/2 - 7 Frame spaces					
" " " Brdth. & Thickness	21	8	21	8		
" " No. of Side Stringers	Three & Hold Stringer					
" " Size of Angles	3 1/2 3 1/2 8 3 1/2 3 1/2 8					
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness	18	8	18	8		

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates depth and thickness	10 x 2 3/4	10 x 2 3/4
STEM, moulding and thickness	10 x 6	10 x 6
STERN-POST for Rudder do. do.	10 x 6	10 x 6
" " for Propeller	8	8
MAIN PIECE of Rudder, diameter at head do. at heel	4	4

RUDDER, how constructed Forged iron frame, plated
Can the Rudder be unshipped afloat? Yes

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	16ths or 20ths per Rule Or as Appro.	Inches in Ship.	Inches in Ship.	16ths or 20ths per Rule Or as Appro.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate						
" Rider Plate						
" Bulb Plate to Intercoastal Keelson						
" Horizontal Plates on Floors						
" Angles						
SIDE KEELSON, Angles						
" Bulb or Plate above floors for lng.						
" Intercoastal Plate for length						
" Attached to outside plating with Angle						
BILGE KEELSON, Angles						
" Bulb or Plate above floors for len.						
" Intercoastal Plate for length						
" Attached to outside plating with Angle						
BILGE STRINGER Angles						
" Bulb Plate for length						
" Intercoastal Plate for length						
" Attached to outside plating with Angle						
SIDE STRINGER Angles						
" Bulb or Intercoastal Plate for lng.						
" Attached to outside plating with Angle						

Main and Raised Quarter Deck Stringer Plate, breadth and thickness	75	11	75	11
" Angle on ditto	4 x 4	9	4 x 4	9
" Tie Plates fore & aft, outside Hatchways	4 1/2 x 4 1/2	10	4 1/2 x 4 1/2	10
" Diagonal Tie Plates on Bms, No. of Pairs				
" Main Dk* Iron or Steel for lng.	Steel 9 x 8		Steel 9 x 8	
" R. Q. Dk* Iron or Steel for lng.	Iron 7 1/6		Iron 7 1/6	
Hold Deck, Material & thickness				
Lower Deck Stringer Plate, breadth and thickness	52	11	52	11
" Angles on ditto, No. 2	7" flange at face	4 x 4	7" flange at face	4 x 4
" Tie Plates, outside Hatchways				
" Deck Material and thickness				
Hold Stringer Plate				
" Angles on ditto, No.				
Roop Deck Stringer Plate, breadth & thickness				
" Angle on ditto				
" Tie Plates				
" Deck Material and thickness				
Bridge Deck Stringer Plate, brdth & thickness	75	9	75	9
" Angle on ditto	5 x 4	10	5 x 4	10
" Tie Plates	Iron 6 1/5	Steel 8 1/2	Iron 5 1/6	Steel 8 1/2
" Deck, Material and thickness				
Forecastle Deck Stringer Plate, breadth & thickness				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
BULKHEADS.	In Vessel.	Per Rule.	Horizontal.	Vertical.	Spacing.
W.T. BULKHEADS	6	7-6	6 1/2 x 3 1/2	6 1/2 x 3 1/2	48
Partition "	Iron	7-6	7 1/2 x 3 1/2	7 1/2 x 3 1/2	48
LONGITUDINAL "	In hold	5 1/6	Iron 5 x 3 1/6	48	
" In 'tween Dks.	5 1/6	6" flange edge	48		

Are the outside Plates doubled two spaces of Frames in length? Yes

RIVETING.

FRAMES extend in one length from Trunk side to primaries
 REVERSED FRAMES on floors and frames extend from ✓

MASTS, SPARS, &c.

EQUIPMENT No. 29807 LETTER C- . ~~TONNAGE FOR TRAWLERS~~ U.Dk.
ANCHORS.

EQUIPMENT No. 2900 LETTERS										ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQ. BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.		
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.					
27217	1st Bower ..	44	2	0	—	—	—	38	18	3	0	42	2	0	Byers Patent	W.L. Byers	14.1.95	J. Hartness	
27200	2nd „ ..	40	2	14	—	—	—	36	4	1	14	42	2	0	reliance	Sundland	8.1.95	Sundland	
27208	3rd „ ..	36	2	0	—	—	—	33	8	3	0	36	1	0	—	—	11.1.95	—	
	Collective weight	21	2	14								121	1	0	Drop last certificates for cast steel heads				
27155	Stream ...	10	1	7	2	3	0	12	15	1	7	10	3	0	Common	J.H. Horseshoe	No. 18.12.94	J. Hartness	
27249	Kedge	5	2	0	1	1	14	7	16	1	0	5	2	0	—	—	21.1.95	Sundland	
	2nd Kedge ..																		

If Patented Statute of Patented.

HAWSERS AND WARPS.

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CHAIN CABLES.														Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.
Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Descrip- tion.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.			
				Supplied.	Per Rule.										
11293	225	1 7/8	88 1/2 - 63 1/4	399.1.18	425.1.0	240 - 1 11/16	Stud link	J. Hartman	21.1.95 J. Hartman	TOWLINE Steel	100	4	33 1/2	100 - 4"	
11267	15	1 7/8	—	26.0.23	—	—	—	W. Co.	19.12.94 Dundee	HAWSER	90	5 1/4	22	90 - 3 1/2"	
11279	75	1 7/8	34 1/8 - 22 1/4	50.1.10	48.2.6	75 - 1 1/8	—	—	14.12.94 —	WARP Manila	90	8	—	90 - 8"	
Iron Steam Chain) on Steel Wire. ...)															

Boats 2 Life boats & 2 others
Pumps, Number 4 Dye pumps & as appd.
Windlass is Emerson Walker & Thompson Bros.
Engine Room Skylights.—How constructed? Iron on iron casing 6' 0" high above Part dawning deck.
What arrangements for deadlights in bad weather? Thick glass bullseyes in iron hinged covers.
Coal Bunker Openings.—How constructed? 3 Hatches each side How are lids secured? Bars & tarpaulins Height above deck? 18" & 12"
Number of Scuppers, and number and dimensions of Freeing Ports, &c. 4 Ports (22" x 15") 5 Scuppers each side of Q-deck.
Ceiling in Holds, thickness and material 2 1/2" W.P.
Cargo Hatchways.—How formed? Steel plate coamings.
State size No. 1 Hatch (Forward) 15.9 x 15.9 No. 2 Hatch 23.11 x 15.10 No. 3 Hatch 22.0 x 15.9 No. 4 Hatch 23.10 x 15.0
Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch 1 web plate in No. 1 hatch, 2 web plates in Nos. 2, 3 & 4
hatches, 3 fore & afters in each hatch
No. of Breasthooks 7 deep floors No. of Crutches 1 & deep floors
Bulwarks, height above deck and description Thick plating 36" above stringer at Q-deck. Main Rail, material and size 6" Bulw angle at Q-deck.
The above is a correct description.
Builder's Signature (here only.) L. Mills
FURNESS, WITHERS & CO. LIMITED, Surveyor's Signature Chas. Fowling
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) 1894 - July 21. May 30
Aug 7. 24. Oct 8. 16. Dec 8. 1895 July 22.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed
Is the work properly closed? Yes
Are the joints between the frames and plates solid single pieces? Yes
Do the holes for riveting plate to frames, butt straps, or plate
Are the rivet holes well and sufficiently countersunk in the plate and punched
Do any rivets break into or through the seams or butts of the plating? A few
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes.

General Remarks (State quality of workmanship, &c.)
The workmanship is good and the vessel has been constructed in accordance with the approved plans (4 in No.) which together with one Diggins Report are attached hereto.
The collision bulkhead has been tested by filling fore peak with water to height of load line; decks and tunnel tested by hose and found good. Hand pumps tried and found to work satisfactorily.

Drawings.
Midship Section
Profile
Q.R. side plating
Pumping plan.
This is a similar vessel to the S.S. "Ailsa" in W. & A. Report No. 9600

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 123 ft., R.Q.D. or Bridge Dk. 191 ft., F'castle 191 ft.
(in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the F'castle, this should be distinctly stated.
No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book). One deck (iron & steel), part awning deck (iron & steel) & web frames.
Official No. 104850 ; Signal Letters
How are the surfaces preserved from oxidation? Inside Portland Cement & Paint Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system Cellular System.

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	104	190	Fore peak tank,	✓	✓
Double bottom, forward,	110	206	After peak tank,	✓	30
Double bottom, under Engines and Boilers,	46	100	Midship deep tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Other tanks, if fitted,	✓	✓
Double bottom, if under Boilers only,	✓	✓			

(If necessary, furnish further information by sketch.)

State whether the above have been tested as required by the Rules Yes.

Order for Special Survey No. 1608
Date 26th July, 1894
Order for Ordinary Survey No.
Date
No. 212 in builder's yard
1st. On the several parts of the frame, when in place, and before the plating was wrought
2nd. On the plating during the process of riveting.
3rd. When the beams were in and fastened and before the decks were laid
4th. When the ship was complete, and before the plating was finally coated or cemented
5th. After the ship was launched and equipped
Built under Special Survey.
First visit, 25th July, 1894
Last, 11th March, 1895.
Total No. of Visits 54

The amount of Entry Fee£ 5 :
Special£ 94 : 7 : 6
Certificate* £ : :
Travelling Expenses, if any £ : :
Fees applied for, 19. 3. 1895
Received by me, 19. 3. 1895
* Certificate to be sent to
I am of opinion this Vessel should be Classed 100A1 Part Awning deck.
With, or without Freeboard, as condition of Class
Chas. Fowling.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
Character assigned 100A1 Steel
a + c p
+ 2 in 3, 95
100A1 Steel
pk. Awn. dk.
with fld. 39" 2 1/2
1 dk (pk. In + pk. 39") 2 A-B &
Web frames + pk. Awn. dk
(pk. 39" pk. In)
This vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed 100A1 ("Steel") Part Awning deck with freeboard as recommended. The Summer freeboard of 9" 2 1/2" from centre of deck to top of stanchion deck line to part awning deck and marked on the vessel's sides, to be inserted in the Classification Certificate and recorded in the Register Book, and further the remaining freeboards, as shown on the accompanying verification form, to be inserted in the Certificate of Classification.
+ 100A1 ("Steel") Part Awning dk with freeboard
1 dk (pk. In + pk. 39") 2 A-B & Web frames + pk. Awn. dk (pk. 39" pk. In)
N.B. = 100A1 104 ME 4 B 46 110 496 4 PT 204
F.K. Conn

The Surveyors are requested not to write on or below the Committee's Minute.