

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

IRON OR STEEL STEAMER.

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

Date of completion of Report *15th May*

Port of *Sunderland*

No. *17802* Survey held at *Sunderland*

Date, First Survey *10 August 94*

Last Survey *16th May*

1895

On the *Steel Screw Steamer*

HARLINGTON

YARD No. *188*

Rig *Schooner*

TONNAGE under

Tonnage Deck... *753.18*

Do. of Poop *49.82*

Do. of Raised Qr. *56.19*

Do. of Bridge House *92.35*

Do. of Forecastle *26.56*

Do. of Houses on Deck *4.46*

Do. of excess of Hatchways *49.17*

Do. above Crown of *Engine Room* *1031.73*

Less Crew Space *50.37*

Less above Crown of *Engine Room* *981.36*

TONNAGE FOR FEES *354.34*

Less Engine Room *330.15*

Less Navigation Spaces *24.19*

Register Tonnage *627.02*

ONE OR TWO DECKED VESSEL.

CLASS *100A1*

Half Breadth (moulded) *15.66*

Depth from upper part of Keel to top of Main Deck Bms. *16.83*

Girth of Half Midship Frame (as per Rule) *29.*

1st Number *61.49*

Length *218.64*

2nd Number *13444*

Proportions—Breadths to Length *6.9*

Depths to Length—Main Deck to top of Keel *12.9*

Destined Voyage *London*

Master *J R Hardy*

Year of appointment *1895*

Built at *Sunderland*

When built *1895* Launched *9th April*

By whom built *S. P. Austin & Son*

Owners *J & C Harrison*

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

Residence *London*

Port belonging to *London*

4 Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH—	Feet.	Inches.	Power of	Horse.	No. of Decks with Flat laid
as per Rule	218	8	Moulded	31	4	Top of Floors to Main Deck Beams	13	9 8"	Engines	110	one
Dimensions of Ship per Register, Length, <i>220.0</i> breadth, <i>31.5</i> depth, <i>13.6</i> Moulded Depth, ft. <i>16</i> ins. <i>2</i> Round of Beam <i>8</i> inches.											

FRAMING.						FORGINGS AND CASTINGS.					
	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or a	16ths or 20ths per Rule ved.		Inches in Ship.		Inches per Rule. Or as Approved.		
FRAME, Angles, L, E or C Bars, for $\frac{1}{2}$ length amidships	6	3	8 bars	6	3	8 bars	KEEL, Bar or Side Plates depth and thickness	Flat plate	heel		
Do. for $\frac{1}{2}$ at each end	6	3	7	6	3	7	STEM, moulding and thickness	7 x 2 1/2	7 x 2 1/2		
Do. in way of Double Bottoms at Solid Floors	3	3	7	3	3	7	STERN-POST for Rudder do. do.	7 1/2 x 4 3/4	7 1/2 x 4 3/4		
" " at intermdt. Bkts.	4	3	7	4	3	7	" for Propeller	7 1/2 x 4 3/4	7 1/2 x 4 3/4		
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	-	-	23	-	-	MAIN PIECE of Rudder, diameter at head	5 1/2	5 1/2		
REVERSED FRAME, Angles	3	3	7	3	3	7	do. at heel	3 1/2	3 1/2		
DEEP FRAMING, depth of girder	-	-	-	-	-	-	RUDDER, how constructed	Forged frame & plated			
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	37	6 1/2	all forward of boiler room bulkhead				Can the Rudder be unshipped afloat?	yes			
" in way of Engines and Boilers	37	6 1/2	7/16	37	6 1/2	7/16	KEELSONS AND STRINGERS.				
" thickness at the ends of vessel	Flows rise from boiler room bulkhead aft to 54" on 12 frames						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate				
" depth at $\frac{1}{2}$ the half breadth, as per Rule	20	-	-	20	-	-	" Rider Plate				
" height extended at the Bilges	37	-	-	37	-	-	" Bulb Plate to Intercoastal Keelson				
FLOORS & BRACKETS, in Cell Dble Bottoms	46	-	-	46	-	-	" Horizontal Plates on Floors				
" Distance apart	37	-	-	37	-	-	" Angles				
CENTRE GIRDER, in Double Bottom, depth and thickness	3 1/2	3 1/2	7	3 1/2	3 1/2	7	SIDE KEELSON, Angles				
" Angles, Top	5	3 1/2	7	5	3 1/2	7	" Bulb or Plate above floors for length				
" Bottom	5	3 1/2	7	5	3 1/2	7	" Intercoastal Plate for length				
SIDE GIRDERS, number and thickness	Three	6	Three	6			" Attached to outside plating with Angle				
" Angles	3	3	7	3	3	7	BILGE KEELSON, Angles				
MARGIN PLATE, depth (exclusive of flange) and thickness	20	-	-	20	-	-	" Bulb or Plate above floors for length				
" Angles	3 1/2	3 1/2	7	3 1/2	3 1/2	7	" Intercoastal Plate for length				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	34	-	-	34	-	-	" Attached to outside plating with Angle				
" thickness in Engine and Boiler space	7/16	8/16	-	7/16	8/16		BILGE STRINGER Angles	5	3 1/2	7	
" Remainder in Holds	-	-	-	-	-	-	" Bulb Plate for length				
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	8	5 1/2	3	8	" Intercoastal Plate for length				
" Angles on Upper Edge	-	-	-	-	-	-	" Attached to outside plating with Angle				
" Average space	23	-	-	23	-	-	SIDE STRINGER Angles				
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	-	-	-	-	-	-	" Bulb or Intercoastal Plate for length				
" Angles on Upper Edge	-	-	-	-	-	-	" Attached to outside plating with Angle				
" Average space	-	-	-	-	-	-	Main and Raised Quarter Deck Stringer Plate, breadth and thickness	72 x 3 1/2	10	72 x 3 1/2	
BEAMS, Hold, Plate or Tee Bulb	-	-	-	-	-	-	" Angle on ditto	3 1/2 x 3 1/2	8	3 1/2 x 3 1/2	
" Angles on Upper Edge	-	-	-	-	-	-	" Tie Plates fore & aft, outside Hatchways				
" Average space	-	-	-	-	-	-	" Diagonal Tie Plates on Bms, No. of Pairs				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	7	5 1/2	3	7	" Main Dk* Iron or Steel for full length	6/16		6/16	
" Angles on Upper Edge	-	-	-	-	-	-	" R. Q. Dk* Iron or Steel for full length	6/16		6/16	
" Average space	46	-	-	46	-	-	" Wood Deck, Material & thickness				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	2 1/2	6	4	2 1/2	6	Lower Deck Stringer Plate, breadth and thickness				
" Angles on Upper Edge	-	-	-	-	-	-	" Angles on ditto, No.				
" Average space	23	-	-	23	-	-	" Tie Plates, outside Hatchways				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	2 1/2	6	4	2 1/2	6	" Deck* Material and thickness				
" Angles on Upper Edge	-	-	-	-	-	-	Hold Stringer Plate				
" Average space	23	-	-	23	-	-	" Angles on ditto, No.				
PILLARS, In 'tween Decks, Size and Spacing	2 1/2	3 1/2	46" apart				Poop Deck Stringer Plate, breadth & thickness	24	7	24	
" Hold	3 1/2	as per Rule					" Angle on ditto	3 1/2 x 3 x 6	3 1/2 x 3 x 6		
" Quarter, 'tween Dks.,							" Tie Plates	9	7	9	
" in Hold							" Deck, Material and thickness	yellow pine	5 x 3		
WEB FRAMES, In Fore Body, No. and Spacing	Five	7 1/2	8 frame spaces				Bridge Deck Stringer Plate, brdth & thickness	42	6/16	42	
" Brdth. & Thickness	One	15	7	One	15	7	" Angle on ditto	3 1/2 x 3 x 7	3 1/2 x 3 x 7		
WEB FRAMES, In E. & B. Space, No. & Spacing	Four	5	frame spaces				" Tie Plates				
" Brdth. & Thickness	One	15	7	One	15	7	" Deck, Material and thickness	Iron	5/16	Iron	
WEB FRAMES, In After Body, No. and Spacing	Four	4 1/2	frame spaces				Forecastle Deck Stringer Plate, brdth & thcknss	Iron	6/16	Iron	
" Brdth. & Thickness	Two	15	7	Two	15	7	" Angle on ditto	3 1/2 x 3 x 6	3 1/2 x 3 x 6		
" No. of Side Stringers	Two	15	7	Two	15	7	" Tie Plates				
" Size of Angles or Tee Bars to Web Frames	6	3	8	6	3	8	" Deck, Material and thickness	Iron	5/16	Iron	
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness							* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.				
						BULKHEADS.					
						STIFFENERS.					
						W.T. BULKHEADS					
						PARTITION					
						LONGITUDINAL					
						Are the outside Plates doubled two spaces of Frames in length?					

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.									
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		Breadth.	For what Length.
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.						Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.		
FLAT PLATE KEEL.....	34	13	11	11	34	13	Double	5 1/2	7/8	3 1/2	Full length	3/8	3 1/2	1 1/2	15	-	-	-	-
(If Bar Keel, state Riveting)																			
GARBOARD OR A Strake...	46	10	9	9	46	10	do.	4 1/2	3/4	2 3/4	do.	3/4	3 1/2	-	-	9	full	-	-
State actual thickness in way of Double Bottom.																			
B "	54	9	8	8	54	9	do.	4 1/2	3/4	2 3/4	do.	3/4	2 3/4	-	-	7 1/2	do.	-	-
C "	48	10	8	8	48	10	do.	5 1/4	7/8	3 1/2	do.	7/8	3 1/2	-	-	9	do.	-	-
D "	46	10	8	8	46	10	do.	4 1/2	3/4	2 3/4	do.	7/8	3 1/2	-	-	9	do.	-	-
E "	54	9	8	8	54	9	do.	4 1/2	3/4	2 3/4	do.	3/4	2 3/4	-	-	7 1/2	do.	-	-
F "	46	9	8	8	46	9	do.	4 1/2	3/4	2 3/4	do.	3/4	2 3/4	-	-	7 1/2	do.	-	-
G "	54	10	8	8	54	10	do.	5 1/4	7/8	3 1/2	do.	7/8	3 1/2	-	-	9	do.	-	-
Shur H "	36	13	9	9	36	13	do.	5 1/4	7/8	3 1/2	do.	7/8	3 1/2	-	-	9	do.	-	-
J "																			
K "																			
L "																			
M "																			
N "																			
O "																			
P "																			
DOUBLING of Flat Plate Keel																			
of Bilges.....																			
Length and thickness of Sheerstrakes.	19	6	29	9	20	9													
of Strake below	18	6	49	9	20	9													
POOP SIDES.....	1/2	thick																	
RAISED QUARTER DECK SIDES	3/4																		
BRIDGE SIDES.....	3/4																		
FORECASTLE SIDES.....	3/4																		
LENGTHS OF PLATING.....	Seven spaces of frames.																		

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c.: *Seimens Marten steel*

Plates, outside Plating, &c.: *Seimens Marten steel*

Plates, inside Plating, &c.: *Seimens Marten steel*

Inner Bottom Plating, riveting of Edges single *Butts, treble riveted for full length amidship.*

Centre Girder Butts, *treble riveted, Keelson Butts, double riveted.*

Frames, riveted through Plates with *7/8 x 3/4 in. Rivets, about 6 1/2 x 5 1/2 apart.*

Rivets, state whether of Iron or Steel *Iron*

FRAMES extend in one length from *Centre line to margin plate, thence to gunwale*

REVERSED FRAMES on floors and frames extend from *margin plate to margin plate - bulk angle frames.*

MASTS, SPARS, &c.									
LOWER MASTS.....	Material.		Total length.		DIAMETER AND THICKNESS.			No. of Plates in round.	ANVILS.
	Fore	Main	Mizen	At Partners	Heel	Round.	Head.		
Fore	pitch pine	55	6						
Main		30	6						
Mizen									
Bowsprit									
Topmasts, Yards and Remainder of Spars									
Rigging, Material and Size, Shrouds									
Sails.	One	Suit of schooner							

EQUIPMENT No. *14578* LETTER *m* TONNAGE FOR TRAWLERS - U.D.K. 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.		
27457	1st Bower	22	3	0	-	-	-	22	18	3	0	22	2	0	Reliance	W.L. Byers & Co. R.W.C. 1/4s J. Harrison
27458	2nd "	22	2	7	-	-	-	22	16	3	14	22	2	0	"	"
27461	3rd "	19	2	0	-	-	-	20	6	1	0	19	0	0	"	"
	Collective weight	64	3	7				64	0	0		64	0	0		
27438	Stream	6	2	21	1	3	0	9	0	0	0	6	2	0	Hodgers	J. Harrison & Co. 1/4s
27382	Kedge	3	1	7	0	3	14	5	16	2	7	3	1	0	"	"
	2nd Kedge															

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.
				Supplied.	Per Rule.														
11393	210	1 1/2	55 1/2	215	1-13	222	1-17	210	1-17	Hudlin & Harrison R.W.C. 3/4s J. Harrison	TOWLINE	90	3	18	90	3			90
11346	21 3/4	1 1/2	23 1/2	15 1/2	13	13				"	HAWSER	90	2 3/4	15 1/2	90	2 3/4			90
11398	30	1 1/2	23 1/2	15 1/2	13	13				"	WARP	90	2 3/4	15 1/2	90	2 3/4			90
Iron Stream Chain or Steel Wire																			

Boats *Two life boats and two others*

Pumps, Number *Five*

Windlass is *Emerson Walker & Thompson 1882* Capstan

Engine Room Skylights.—How constructed? *Wood or iron coamings*

What arrangements for deadlights in bad weather? *Leak shutters and bullrogs*

Coal Bunker Openings.—How constructed? *Iron* How are lids secured? *Hatch covers* Height above deck? *18"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *eight scuppers each side, four ports 2'8" x 1'9"*

Ceiling in Holds, thickness and material *2 1/2 White pine* Ceiling 'tween Decks, thickness and material *White boards 2 1/2*

Cargo Hatchways.—How formed? *Iron plates bars in usual manner* Hatches.—If strong and efficient? *Yes, 2 1/2*

State size No. 1 Hatch (Forward) *23'0" x 16'9"* No. 2 Hatch *30'8" x 19'0"* No. 3 Hatch *34'6" x 17'0"* No. 4 Hatch

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *No. 1, two web plates; No. 2, one fixed beam and two shifting beams; No. 3, one fixed beam & one web and one shifting beam; No. 4, one fixed beam and two shifting beams.*

Bulwarks, height above deck and description *4'10" fore; 3'7" aft. plated. Main Rail, material and size 6 1/2" bulb angle*

The above is a correct description.

Builder's Signature *S. P. Austin Tor.* Surveyor's Signature *George Harrison* 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, 14th & 26th June*

28th December / 95, 7th February.

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes* Do any rivets break into or through the seams or butts of the plating? *a few only*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

General Remarks (State quality of workmanship, &c.) *This is a steel screw steamer, built in accordance with the approved plans; the Secretary's letters dated as above stated and in other respects as required by the Rules, she is a similar vessel to the S.S. "St. Dunstan", report No. 16715. The workmanship is good. The decks and waterways have been tested, and the efficiency of the hand pumps ascertained.*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *27* ft., R.Q.D. or Break *48* ft., Bridge Dk. *46* ft., F'castle *27* 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 B.D., this should be distinctly stated *The poop deck, and the raised quarter deck joins the bridge.*

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) *1 (I.R.M.) Dk. x 1 tier of beams.*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *portland cement and paint* Outside *paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system									
Where fitted.		Length.	Water Capacity.	Where fitted.		Length.	Water Capacity.		
		Feet.	Tons.			Feet.	Tons.		
Double bottom, aft,		52	90	Fore peak tank,			22		
Double bottom, forward,		90	141	After peak tank,			35		
Double bottom, under Engines and Boilers,		38	66	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 <i>yes</i>									
Order for Special Survey No. <i>3939</i>	DATES OF SURVEYS held while building as per Section 18.	1st.	On the several parts of the frame, when in place, and before the plating was wrought <i>Small under p.p. and under p.p. 1894 Aug. 10 and Sept. 28 August 95</i>						
Date <i>28 August 1904</i>		2nd.	On the plating during the process of riveting <i>Aug. 28th. H.S.G. 116 18 22 24 29 Nov. 11 19 22 24 28 Dec. 11 10</i>						
Order for Ordinary Survey No.		3rd.	When the beams were in and fastened and before the decks were laid <i>12. 11. 20/95 Jan. 4. 11. 18 24 29 Feb. 25 March 27 25 26 29</i>						
Date		4th.	When the ship was complete, and before the plating was finally coated or cemented ... <i>Apr. 12 14 22 24 27 30 May 3 6</i>						
No. <i>188</i> in builder's yard		5th.	After the ship was launched and equipped						
		Total No. of Visits <i>46</i>							

The amount of Entry Fee £ *3* : : Fees applied for, *18*

Special £ *49* : : Received by me, *7 May 1895*

Certificate* £ : : Travelling Expenses, if any £ : : *J.H.*

I am of opinion this Vessel should be Classed *100 A1 STEEL*

With, or without Freeboard, as condition of Class

Committee's Minute *TUES 21 MAY 1895*

Character assigned *100 A1 (Steel)*

1 Dk (In) on web frames will Dk.

+ 100 A1 (Steel)

1 Dk (In) & web frames will Dk.

+ L.M.C. 5. 95.

N.B. = 100 Dk & 52' x 54' 5 1/2" x 90' 2 3/4" x 11' 6" x 11' 6" x 11' 6" x 11' 6"

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