

cks.

## IRON OR STEEL STEAMER.

(Received at London Office)

4309

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

Date of completion of report *October 29<sup>th</sup> 1893* Port of *Belfast*No. *4309* Survey held at *Belfast* Date, First Survey *Nov-22<sup>nd</sup> 1892* Last Survey *October 29<sup>th</sup> 1893*On the *Steel Screw Steamer "Pachem"* Rig *4 masts, Sch.*TONNAGE under Tonnage Deck... *3596.10* THREE DECKED VESSEL.Do. between Tonnage Dk. *1268.01*and 3rd and 4th Dk. *4864.11*Total under Upper Dk. *33.81*Do. of Poop *62.60*Do. of Bridge House *102.33*Do. of Houses on Dk. *133.76*Do. of excess of Hatchways *5203.61*Do. of Forecastle *176.62*Do. above Crown of *109.33*Engine Room *4917.66*Gross Tonnage *1065.16*Less Crew Space *25.02*Less above Crown of *3336.81*Engine Room *3336.81*TONNAGE FOR FEES.. *3336.81*Less Engine Room *3336.81*Less Navigation Spaces *3336.81*Register Tonnage *3336.81*as cut on Beam *3336.81*CLASS *100A*Half Breadth (moulded) *23.*Depth from upper part of Keel to top of Upper Deck Beams *35.04*Girth of Half Midship Frame (as per Rule) *53.21*deduct 7 feet *111.25*1st Number *104.25*Length *443.25*2nd Number *46208*Proportions - Breadth to Length *9.6*Depth to Length - Upper Deck to top of Keel *12.65*Main Deck ditto *16.1*Destined Voyage *Boston*Master *Samuel Walters*Year of appointment *1893*Built at *Belfast*When built *1893* Launched *June 29<sup>th</sup>*By whom built *Harland & Wolff Ltd.*Owners *The Constitution Steam Ship Co. Ltd.*Managers *George Warren & Co.*Residence *Liverpool*Port belonging to *Liverpool*LENGTH on Deck *443* Feet. *3* Inches. BREADTH *46* Feet. *3* Inches. DEPTH top of Floor to Upper Deck Beams *31* Feet. *0* Inches. Power of Engines *593* Horse. No. of Decks with flat laid *Three*as per Rule *443* Moulded *46* Do. do. Main Deck Beams *23* *4* No. of Tiers of Beams *Three*Dimensions per Register, Length *445.5* breadth *46.25* depth *31.1* Moulded depth, ft. *34* ins. *4* To Upper Dk. Round up of *8 1/2*

## FORGINGS or CASTINGS.

KEEL, Bar or Side Plates, depth and thickness *10 x 2 1/2*STEM, moulding and thickness *12 x 3 1/2*STERN POST for Rudder do. do. *12 x 4 1/2*for Propeller *12 x 4 1/2*MAIN PIECE of Rudder, diameter at head *10 1/2*do. at heel *5 1/2*RUDDER, how constructed *Of solid cast steel - Stock*Can the Rudder be unshipped afloat? *Yes*

## FRAMING.

RIBS, Angles, or Bars for 1/2 length amidships *6 3/2*Do. for 1/2 at each end *6 3/2*Do. in way of Double Bottoms *3 1/2*Distance of Frames from moulding edge to moulding edge, all fore and aft *24*REVERSED FRAME Angles *4 1/2*FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships *4 1/2*in way of Engines and Boilers *4 1/2*thickness at the ends of vessel *4 1/2*depth at 1/2 the half breadth, as per Rule *4 1/2*height extended at the Bilges *4 1/2*FLOORS & BRACKETS in Cell Dble Bottoms *4 1/2*Distance apart *4 1/2*CENTRE GIRDER, in Dbl Btm. depth & thickness *4 1/2*Angles, Top *4 1/2* Bottom *4 1/2*SIDE GIRDERS, number and thickness *4 1/2*Angles *4 1/2*MARGIN PLATE, dpth (excl. of flange) & thickness *4 1/2*Angles *4 1/2*INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake *4 1/2*in Engine and Boiler space *4 1/2*Remainder in Holds *4 1/2*BEAMS, Upper Deck, Single Angle, Bulb *10*Angle, Plate or Tee Bulb *10*Angles on upper edge *10*Average space *10*BEAMS, Middle Deck, Single Angle, Bulb *11*Angle, Plate or Tee Bulb *11*Angles on upper edge *11*Average space *11*BEAMS, Lower Deck, Single Angle, Bulb *11*Angle, Plate or Tee Bulb *11*Angles on upper edge *11*Average space *11*BEAMS, Hold, or Orlop, Plate or Tee Bulb *10*Angles on upper edge *10*Average space *10*BEAMS, Poop and Bridge Deck, Angle, Bulb *8*Angle, Plate or Tee Bulb *8*Angles on upper edge *8*Average space *8*BEAMS, Forecastle Deck, Angle, Bulb *9*Angle, Plate or Tee Bulb *9*Angles on upper edge *9*Average space *9*PILARS, In 'tween Decks, Size and Spacing *3 1/2*Hold *4 1/2*WEB FRAMES, In Fore Body, No. and spacing *2*Br'dth. & Thickness *10*No. of Side Stringers *10*WEB FRAMES, In After Body, No. and spacing *2*Br'dth. & Thickness *10*No. of Side Stringers *10*Size of Angles or Tee Bars to Web Frames *3 1/2*BRACKET PLATES to Stringers between Web Frames, Depth and Thickness *10*

## KEELSONS &amp; STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate *1*Rider Plate *1*Bulb Plate to Intercoastal Keelson *1*Horizontal Plates on Floors *1*Angles *1*SIDE KEELSON, Angles *1*Bulb or Plate above floors, for length *1*Intercoastal Plate, for length *1*Attached to outside Plating with Angle *1*BILGE KEELSON, Angles *1*Bulb or Plate above floors, for length *1*Intercoastal Plate for length *1*Attached to outside Plating with Angle *1*BILGE STRINGER Angles *4 in. R.P.*Bulb Plate for length *1*Intercoastal Plate for length *1*Attached to outside Plating with Angle *1*SIDE STRINGER Angles *4 in. R.P.*Bulb or Intercoastal Plate for length *1*Attached to outside Plating with Angle *1*Upper Deck Stringer Plate, on ends of Beams, breadth and thickness *36 x 40*Angle on ditto *6 1/2 x 4 1/2*Tie Plates fore and aft, outside Hatchways *1*Flat of Dk. \* Iron or Steel, for entire lng. *9*Wood Material & thickness *1*How fastened to Beams *1*Middle Deck Stringer Plate, br'dth & thickness *36 x 46*Angles on ditto, No. *2*Tie Plates outside Hatchways *1*Diagonal Tie Plates on Bns., No. of prs. *1*Flat of Dk. \* Iron or Steel, for entire lng. *1*Wood Material & thickness *1*How fastened to Beams *1*Lower Deck Stringer Plate, br'dth & thickness *36 x 40*Angles on ditto, No. *2*Tie Plates, outside Hatchways *1*Flat of Deck \* Material and thickness *1*How fastened to Beams *1*Hold or Orlop Stringer Plate, br'dth & thickness *1*Is the Stringer Plate attached to the outside Plating? *1*Angles on ditto, No. *1*Tie Plates outside Hatchways *1*Flat of Deck \* Material and thickness *1*How fastened to Beams *1*Poop Deck Stringer Plate, breadth & thickness *36 x 40*Angle on ditto *3 1/2 x 3 1/2*Tie Plates *1*Flat of Deck, Material and thickness *1*How fastened to Beams *1*Bridge Deck Stringer Plate, breadth & thickness *42 x 10*Angle on ditto *2 in. R.P.*Tie Plates *1*Flat of Deck, Material and thickness *1*How fastened to Beams *1*Forecastle Deck Stringer Plate, br'dth & thickness *32 x 32*Angle on ditto *3 1/2 x 3 1/2*Tie Plates *1*Flat of Deck, Material and thickness *1*How fastened to Beams *1*

PLATING.

FLAT PLATE KEEL, breadth and thickness *51*D'bling or inc. thickness & len. appl'd. *10*PLATES in Garboard Strakes, br'dth & thickness *51*from Garboard to lower part of Bilges *3 1/2*State Thickness of Plating in way of Double Bottom *3 1/2*Bilges, number of Strakes and thickness *3 1/2*Of doubling at Bilge, or increased thickness, and length applied *1*from up. prt. of Bilge to l. edge of Sh'rstrake *4*Sheerstrake, breadth and thickness *46*Of d'bling at Sh'rstk. & length appl. *3 1/2*Poop Sides *10*Bridge do. *10*Forecastle do. *12*Lengths of Plating *12*



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? *very few*

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

	Material.	Total Length	DIAMETER AND THICKNESS.					No. of plates in round	ANGLES.			RIVETING.	
			At Partners.	Heel.	Houmds.	Head.	Number.		Size.	Seams.	Butts.		
No Square Sails	Steel	86. 6	28 x $\frac{3}{32}$	22 x $\frac{3}{32}$	21 x $\frac{3}{32}$	19 x $\frac{3}{32}$	3	1	4 x 3	Single	Quadruple		
Fore .....	Steel	86. 6	28 x $\frac{3}{32}$	22 x $\frac{3}{32}$	21 x $\frac{3}{32}$	19 x $\frac{3}{32}$	3	1	4 x 3	Single	Quadruple		
LOWER MASTS.	Main	40. 3	28 x $\frac{3}{32}$	26 $\frac{1}{2}$ x $\frac{3}{32}$	21 x $\frac{3}{32}$	19 x $\frac{3}{32}$	1	1	4 x 3	Single	Double		
Mizen	"	40. 3	26 x $\frac{3}{32}$	22 x $\frac{3}{32}$	20 x $\frac{3}{32}$	18 x $\frac{3}{32}$	1	1	3 $\frac{1}{2}$ x 3	Single	"	"	
Boom	"	64. 6	24 x $\frac{3}{32}$	20 x $\frac{3}{32}$	19 x $\frac{3}{32}$	17 x $\frac{3}{32}$	1	1	3 $\frac{1}{2}$ x 3	Single	"	"	

EQUIPMENT						No. 4075 LETTER 27						WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQ. PR RULE			Description of Anchor.	Makers.	Where and when tested,	Superintendent.
Number of Certificate.		Cwts.	qrs.	lbs.		Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.									
33799	1st Bower ..	88	0	14	—	—	—	—	—	47	6	1	52	0	14	30	0	14	Ball's Rockless	Singby Bros	Netherton	30 May 98					
33799	2nd " ..	57	1	14	—	—	—	—	—	46	14	0	58	0	14	30	0	14	Cast steel head	" "	" "	29	"	"			
33799	3rd " ..	44	0	0	10	3	6	38	12	2	—	—	46	2	—	—	—	—	Protnan's	" "	" "	29	"	"			
33799	4th " ..	48	1	0	10	3	12	38	3	0	14	—	39	2	—	—	—	—	"	"	"	29	"	"			
33799	Collective weight	202	3	4	—	—	—	—	—	202	3	4	202	3	4	—	—	—	—	D.P.	Pearce Sup-						
33799	Stream ....	16	3	14	4	0	24	18	2	3	4	—	16	3	—	—	—	—	"	"	"	29	"	"			
33799	Kedge ..... 2nd Kedge ..	8	3	18	2	1	—	11	2	2	—	—	8	2	—	—	—	—	"	"	"	29	"	"			

Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	Weight of Chain Cable.	Fathoms & size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintending.	Material.	Fathoms.	Size.	Fathoms & Size. Per Rule.
21829	185	2 1/2	134 1/2	368.2.3	240 x 2 1/2	Red link	Kingby Sons	Weston 30 May 93	TOWLINE	Red Copper		120 x 1 1/2
21832	185	2 1/2	134 1/2	374.1.24	240 x 2 1/2	Red link	Kingby Sons	Weston 30 May 93	Hawser	Steel twisted for these		90 x 1 1/2
	120	3	64	339.3.27	90 x 1 1/2	Steel wire	Pullivant	L: London 12 June 93				90 x 10
Iron stream Chain or Steel Wire	120	3	64		120 x 5	"	"					
Towline if steel wire	90	3 1/2	20			"	"					

**Boats** <sup>2 x 10</sup> Two life boats and two other boats.

**Pumps**, Number <sup>7</sup> Seven ✓ Diameter of Barrel and Tail Pipe <sup>6</sup> Six inches and 3 inches respectively

**Capstan** <sup>1</sup> One ✓

What arrangements for deadlights in bad weather? *Gratings and tarpaulins!*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *ten Scuppers, seven freeing ports 36 x 12*

Cargo Hatchways.—How formed? *of plates and angle, coaming* 21. Hatches, If strong and efficient? *yes, 3 Solid.*  
 No. 2 Hatch *24 x 12* No. 4 Hatch *24 x 10*

State size **No. 1 Hatch (Forward)**  $4\frac{1}{2} \times 10-0$  **No. 2 Hatch**  $6 \times 10-0$  **No. 3 Hatch**  $4\frac{1}{2} \times 10$  **No. 4 Hatch**  $4\frac{1}{2} \times 10$   
**Web Plates, Shifting Beams, and Fore and Afters to each Hatch** *One shifting beam in No. 2 and 5 hatches,*

and one strong fore and after in all.

Bulwarks, height above deck and description 7.5 x 20 m. 30 x 70 angle 82 1/2 x 20 Plank 10 x 4

The above is a correct description.

Shiller's Signature (here only) *Richard Woolfson* Surveyor's Signature, *James Purpus*  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

(2043)