

IRON ^{and} ~~OR~~ STEEL STEAMER.

Received at London Office

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

Date of completion of Report

Port of

No. 5467

Survey held at

Date, First Survey

15 $\frac{1}{2}$

Last Survey

Lehrbuch 10 21

On the

Iron & Steel Screw Tappers & Turners

Bid. 10. 11. 12.

ONE ~~OR TWO~~ DECKED VESSEL.

Master

CLASS *100 A*

Year of appointment

(1) As master in service of
owner of present vessel:—18
(2) As master of this
vessel:—19

Built at

London

When built 1891

Launched 28th Jan 1871

By whom buil

Charles B. R.

Owner's Name

de Beau-Navisatien, P.

Managers

(Where necessary to be entered in Reg. Book)

Residence

London

Port belonging to

London

If Surrounded while Building Afloat or in Dry Dock *Whitcomb*

Length on Deck
as per Rule.....

Feet.
218

Inches.
10

Breadth—
Moulded.....

Feet.
30

Inches.
4

Depth—
Top of Floors to Main Deck
Beams.....

Feet.
13

Inches.
6 1/2

Power of
Engines

Horse.

No. of Decks with Flat laid

No. of Tiers of Beams

Dimensions of Ship per Register, Length,

breadth,

depth,

Moulded Depth, ft. 15 ins. 6 1/2

Round of Beam 7 1/2 inches.

FORGINGS AND CASTINGS.

KEEL, Bar or Side Plates depth and thickness

STEM, moulding and thickness

STERN-POST for Rudder do. do.

for Propeller

MAIN PIECE of Rudder, diameter at head.

do at heel

RUDDER, how constructed

Can the Rudder be unshipped afloat?

FRAMING.

FRAME, Angles, on 7 Bars, for 1/2 length amidships

do for 1/2 at each end

Do in way of Double Bottoms

Distance of Frames from moulding edge to

moulding edge, all fore and aft

REVERSED FRAME, Angles

FLOORS, depth and thickness of Floor Plate

at mid-line for 1/2 length amidships

in way of Engines and Boilers

thickness at the ends of vessel

depth at 1/2 the half breadth, as per Rule

height extended at the Bilges

DOORS & BRACKETS, in Cell Dble Bottoms

Distance apart

CENTRE GIRDER, in Double Bottom, depth

and thickness

Angles, Top 3 1/2 x 3 1/2 x 1/20 Bottom

SIDE GIRDERS, number and thickness

Angles

MARGIN PLATE, depth (exclusive of flange)

and thickness

Angles

FOR BOTTOM PLATING, breadth and

thickness of Middle Line Strake

thickness in Engine and Boiler space

Remainder in Holds

MS, Main and Raised Quarter Deck,

Single Angle, Bulb Angle, Plate or Tee Bulb

Angles on Upper Edge

Average space

MS, Lower Deck, Single Angle, Bulb

Angle, Plate or Tee Bulb

Angles on Upper Edge

Average space

BEAMS, Hold, Plate or Tee Bulb

Angles on Upper Edge

Average space

BEAMS, Poop Deck, Angle, Bulb Angle, Plate

or Tee Bulb

Angles on Upper Edge

Average space

BEAMS, Bridge Deck, Angle, Bulb Angle,

Plate or Tee Bulb

Angles on Upper Edge

Average space

BEAMS, Forecastle Deck, Angle, Bulb Angle,

Plate or Tee Bulb

Angles on Upper Edge

Average space

PILLARS, In-tween Decks, Size and Spacing

Hold

WEB FRAMES, In Fore Body, No. and Spacing

Brth. & Thickness

No. of Side Stringers

WEB FRAMES, In After Body, No. and Spacing

Brth. & Thickness

No. of Side Stringers

Size of Angles or Tee Bars to Web Frames

BRACKET PLATES to Stringers between

Web Frames, Depth and Thickness

KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above

floors, Through Plate, or Intercostal Plate

Rider Plate

Bulb Plate to Intercostal Keelson

Horizontal Plates on Floors

Angles

SIDE KEELSON, Angles

Bulb or Plate above floors for

Intercostal Plate for

Attached to outside plating with Angle

BILGE KEELSON, Angles

Bulb or Plate above floors for

Intercostal Plate for

Attached to outside plating with Angle

BILGE STRINGER Angles

Bulb Plate for

Intercostal Plate for

Attached to outside plating with Angle

SIDE STRINGER Angles

Bulb or Intercostal Plate for

Main and Raised Quarter Deck Stringer

Plate, on ends of Beams, breadth & thkness

Angle on ditto

Tie Plates fore & aft, outside Hatchways

Diagonal Tie Plates on Bms, No. of Pairs

Flat of Dk* Iron or Steel for whole lng.

Wood Material & thickness

How fastened to Beams

Lower Deck Stringer Plate, on ends of

Beams, breadth and thickness

Angles on ditto, No.

Tie Plates, outside Hatchways

Flat of Deck* Material and thickness

How fastened to Beams

Hold Stringer Plate, on ends of Beams

Angles on ditto, No.

Poop Deck Stringer Plate, breadth & thickness

Angle on ditto

Tie Plates

Flat of Deck, Material and thickness

Bridge Deck Stringer Plate, brdth & thickness

Angle on ditto

Tie Plates

Flat of Deck, Material and thickness

Forecastle Deck Stringer Plate, brdth & thckness

Angle on ditto

Tie Plates

Flat of Deck, Material and thickness

PLATING.

PLAT PLATE KEEL, breadth and thickness

Double or increased thickness, & length appl.

PLATES in Garboard Strakes, brd'th & thickness

From Garboard to lower part of Bilges

State Thickness of Plating in way of Double Bottom

Bilges, number of Strakes and thickness

Of doubling at Bilge, or increased thickness,

and length applied

from up. part of Bilge to l. edge of Sh'strake

Sheerstrake, breadth and thickness

Of d'bling at Sh'stk. & lng. applied

Poop Sides

Raised Quarter Deck Sides

Bridge Sides

Forecastle Sides

Lengths of Plating

Inches in Ship

Inches in Ship

20ths in Ship

Inches per Rule

Inches per Rule

20ths per Rule

Inches in Ship

Inches in Ship

20ths in Ship

Inches per Rule

Inches per Rule

20ths per Rule

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

The **FRAMES** extend in one length from *lower sides* to *forecastle pumps gun water* Riveted through Plates with $\frac{1}{4}$ in. Rivets, about 6 apart

The **REVERSED ANGLE** on floors and frames extend from *middle line* to *upper hold stringer and gun wall alternately*

RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.

Garboards, double riveted to Bar Keel or Flat Plate Keel, with rivets $\frac{1}{8}$ in. diameter, averaging $5\frac{7}{8}$ ins. from centre to centre.
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets $\frac{3}{4}$ in. diameter, averaging $3\frac{1}{2}$ ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; treble for $\frac{1}{2}$ lgth.; with rivets $\frac{3}{4}$ in. dia., averaging $2\frac{5}{8}$ ins. from cr. to cr.
 " " *B. & D. Straps* overlapped for *whole* length, treble riveted for $\frac{1}{2}$ length; with rivets $\frac{3}{4}$ in. dia., averaging $2\frac{5}{8}$ ins. from cr. to cr.
Butts of *two* **Strakes at Bilge** for $\frac{1}{2}$ length, treble riveted with *Butt Straps lapped* thicker than the plates they connect.
Edges from Bilge to Sheerstrake, worked clencher, double or single riveted; with rivets $\frac{3}{4}$ in. diameter, averaging $3\frac{1}{2}$ ins. from centre to centre.
Butts from Bilge to Sheerstrake, worked carvel, ~~treble or double riveted; treble for~~ length; with rivets $\frac{3}{4}$ in. dia., averaging 3 ins. from cr. to cr.
 " " " " overlapped for length, treble riveted for length; with rivets in. dia., averaging ins. from cr. to cr.
Edges of Sheerstrake, double or single riveted. **Butts of Sheerstrake**, *double* riveted for *whole* length amidships.
Butts of Main Stringer Plate, treble riveted for $\frac{1}{2}$ length amidships. **Single or Double Butt Straps to Stringer Plate** for length
Butts of Inner Bottom Plating *double* riveted for *whole* length. **Butts of Centre Girder** *lapped*, *treble* riveted.
Breadth of edge laps of Shell Plating in double riveting $5\frac{1}{4} \times 4\frac{1}{2}$. **Breadth of edge laps of Shell Plating** in single riveting $3\frac{1}{2}$
Butt Straps of Shell Plating breadth and thickness $1\frac{1}{4} \times \frac{9}{16}$ and $1\frac{1}{4} \times \frac{1}{16}$ iron. **Butts, if Lapped**, breadth of laps $7\frac{1}{2}$
Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted? *treble & double*

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? *Inch's - Harbord Steel Works - Plati - Carrott Iron Works*

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 plates 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? Not many
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

MASTS, SPARS, &c.

[illegible]

Downspit
Topmasts, Yards and Remainder of Spars *Wooden pole and wooden yard*
Rigging, Material and Size, Shrouds *Wire 3 and 2 1/2* Stays
Sails. *One* Suit of Sails, and the following spare sails *One fore sail*

EQUIPMENT No. 14329 - LETTER M - ANCHORS.

Number of Certificate.		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.				
28052	1st Bower ..	23	2	22	-	-	-	23	13	3	0	22	2	0	Stockle	Jas. Hartstone & C.	Neltham	2/6/90
21124	2nd „ ..	16	3	14	4	1	0	18	2	3	7	16	2	14	Trotter	„	„	24/11/90
21123	3rd „ ..	15	3	0	4	0	14	17	3	0	14	15	1	8	„	„	„	24/11/90
	Collective w'ight	56	1	8								54	1	23				
21138	Stream	6	2	0	1	2	21	8	15	0	0	6	2	0	Rodgers -	„	„	24/11/90
21009	Kedge	3	1	14	-	3	0	5	16	2	7	3	1	0	„	„	„	8/11/90
21116	2nd Kedge ..	1	2	14	-	2	0	4	1	2	7	1	2	0	„	„	„	25/11/90

CHAIN CABLES.

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 Superintendent.	Material.	Fathoms.	Size.	Fathoms & Size Per Rule.
8654	241'	1 7/16"	57 1/8	242.3.20	240 - 1 7/16"	Hud	J. Hartshorne	C. Roper War. Co. 27/1/90	TOWLINE*			
									Hawser	90-	2 1/2 inches	90: 2 1/2
Iron Stream-Chain or Steel Wire ...	60'	1 5/16"	15 15/20	24.3.9	60' - 1 5/16"	Hud	" "	" " 29/1/90		90 -	6"	90: 5 1/2
Towline if steel wire	90'	3 1/4"	Test produced		90 - 9 1/2	house				90	5"	

Boats *Two lifeboats and one dinghy*
Pumps, Number *four deck pumps* Diameter of Barrel and Tail Pipe *8" dia, 3 1/2 pipe*
The Windlass is *Eumerson & Walgren patent* Capstan
Engine Room Skylights.—How constructed? *Leak*
What arrangements for deadlights in bad weather? *Bull's eyes*
Coal Bunker Openings.—How constructed? *Gun coaming* How are lids secured? *Lashed* Height above deck? *12"*
Number of Scuppers, and number and dimensions of Freeing Ports, &c. *Small on each side; each 28" x 14"*

Cargo Hatchways.—How formed?— <i>Iron coverings—</i>		Hatches, if strong and efficient? <i>Solid 2 1/2" thick</i>	
State size No. 1 Hatch (Forward) <i>10' 8" x 11' 0"</i>	No. 2 Hatch <i>40' 4" x 14' 8"</i>	No. 3 Hatch	No. 4 Hatch
Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch <i>No. 1: One webplate, No. II: Three webplates and three fore and afters. Girders attached</i>			
Bulwarks, height above deck and description <i>7 ft. stiffened by bulkies</i>		Main Rail, material and size <i>✓</i>	

The above is a correct description.

Builder's Signature, *(here only)* David Lloyd Jones Surveyor's Signature, A. R. Kendall

Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No 524

Date 23rd Aug. 1890

Order for Ordinary Survey No.

Date

No. 146 in builder's yard.

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
- 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

July 15 17 22 23 Aug 7 18 20 22 28 Sept 3 5 8 10
11 12 17 22 25 26 29 October 1 3 7 9 10 14 15 16 17 20 22 24
28 November 4 12 13 20 25 26 Dec 1 5 10 11 17
18 22 23 27 31 Jan 5 9 13 15 16 19 27
29 30 31 Feb 2 3
Total No. of Visits 61

State dates and initials of letters respecting this case

1890: June 5: 16. Sept. 15. 20. Nov. 22

General Remarks (State quality of workmanship, &c.)

This is a one-decked screw steamer, constructed of iron and steel in accordance with the approved plans; and in other respects in accordance with the Rules. One link in each length of chain is callipered and the size found correct. The materials and workmanship are good.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 152 ft., R.Q.D. or Break ft., Bridge Dk. ft., F'castle 20 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. Long poop and bridge combined

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 OK (Iron) 1 br B.

Official No. ; Signal Letters

PARTICULARS OF WATER BALLAST.—

Double bottom, aft, length and water capacity in tons Double bottom, forward, length and water capacity in tons

Double bottom, under engines and boilers, length and water capacity in tons If under Engines only, or Boilers only, state which

Double bottom, constructed on the cellular system, length 189 ft and water capacity in tons 152

Fore peak tank, water capacity in tons After peak tank, water capacity in tons

Midship deep tank, length and water capacity in tons Other tanks, if fitted, length and water capacity in tons

The above have been tested as required by the Rules.

(If necessary, furnish further information by sketch.)

How are the surfaces preserved from oxidation? Inside Cement & paint Outside Paint.

FREEBOARD assigned by the Committee, as per Secretary's

Letter, dated

State if marked on Vessel's sides in accordance with Notice No. 572

In Summer	ft.	ins.
In Winter	ft.	ins.
For Winter in North Atlantic	ft.	ins.
Fresh Water above the centre of disc	ft.	ins.

To top of Wood, Iron or Steel Upper Deck.

The amount of Entry Fee £ 3 : : is received by me;

Special £ 37 : : 21/2/91

Certificate £ : : 24/2/91

Travelling Expenses, if any £

I am of opinion this Vessel should be Classed

100 A Steel plating pt. iron.

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES. 28 APR 1891

Factor assigned

Sub 4/91 100 A Steel

Plating pt Iron

1 OK (Iron) well sh

This submitted that this vessel appears eligible to be classed 100 A (Steel), Plating pt. Iron, as recommended.

1 OK (Iron)

All D.B. (particulars above)

well sh

Lloyd's Register of Shipping