

1 or 2 Decks.

# IRON OR STEEL STEAMER.

Received at London Office,

17 MAR 92

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

Date of completion of Report *15<sup>th</sup> March 1902*. Port of *Barrow*.

No. *429*. Survey held at *Barrow*. Date, First Survey *17<sup>th</sup> Sep 1901*. Last Survey *14<sup>th</sup> March 1892*.

On the *Steel Twin Screw Steamer "BINNIE"* Rig *Sloop*.

TONNAGE under Tonnage Deck... *976.19*

ONE ~~OR TWO~~ DECKED VESSEL.

Master *Jones*.

CLASS *100.A-*

FEET.

Year of appointment (1) As master in service of owner of present vessel - 1892 (2) As master of this vessel - 1892.

Built at *Barrow*

When built *1892*. Launched *27<sup>th</sup> Feb 1902*

By whom built *The Naval Construction Department*

Owners *The London County Council*

Managers

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

Residence *London*

Port belonging to *London*

If Surveyed while Building, Afloat, or in Dry Dock

Do. of Poop  
Do. of Raised Or.  
Dk. or Break.  
Do. of Bridge House  
Do. of Houses on Deck  
Do. of excess of Hatchways  
Do. of Forecastle  
Do. above Crown of  
Engine Room  
Gross Tonnage *1000.57*  
Less Crew Space  
Less above Crown of  
Engine Room  
TONNAGE FOR FEES *941.50*  
Less Engine Room  
*320.18*  
Less Navigation Spaces  
*26.70*

Register Tonnage  
as cut on Beam *594.62*

LENGTH on Deck	Feet.	Inches.	BREADTH -	Feet.	Inches.	DEPTH -	Feet.	Inches.	Power of	Horse.	No. of Decks with Flat laid
as per Rule	231	0	Moulded	38	0	Top of Floors to Main Deck Beams	13	10	Engines		No. of Tiers of Beams
											<i>one</i>

Dimensions of Ship per Register, Length *232.1* breadth *38.25* depth *13.85* Moulded Depth, ft. *14* ins. *6* Round of Beam *11 1/2* inches.

## FORGINGS AND CASTINGS.

EL, Bar or Side Plates depth and thickness  
EM, moulding and thickness  
ERN-POST for Rudder do. do.  
" for Propeller  
IN PIECE of Rudder, diameter at head...  
do. at heel  
PDER, how constructed *Iron forging plated*  
the Rudder be unshipped afloat?

## FRAMING.

ME, Angles, or 7 Bars, for 1/2 length amidships  
for 1/2 at each end  
in way of Double Bottoms  
nce of Frames from moulding edge to  
moulding edge, all fore and aft  
ERSED FRAME, Angles  
ORS, 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  
RS & BRACKETS, in Cell Dble Bottoms  
Distance apart  
RE GIRDER, in Double Bottom, depth  
and thickness  
Angles, Top Bottom  
HOLDERS, number and thickness  
Angles  
N PLATE, depth (exclusive of flange)  
and thickness  
Angles  
BOTTOM PLATING, breadth and  
thickness of Middle Line Strake  
thickness in Engine and Boiler space  
Remainder in Holds  
Main and Raised Quarter Deck,  
Angle, Bulb Angle, Plate or Tee Bulb  
Angles on Upper Edge  
Average space  
Lower Deck, Single Angle, Bulb  
Angle, Plate or Tee Bulb  
Angles on Upper Edge  
Average space  
Main, Plate or Tee Bulb Angle  
Angles on Upper Edge  
Average space  
Bridge Deck, Angle, Bulb Angle,  
Plate or Tee Bulb  
Angles on Upper Edge  
Average space  
Forecastle Deck, Angle, Bulb Angle,  
Plate or Tee Bulb  
Angles on Upper Edge  
Average space  
PILLARS, in Green Decks, Size and Spacing  
" Hold  
WEB FRAMES, in Fore Body, No. and Spacing  
" " " Brdth. & Thickness  
" No. of Side Stringers  
WEB FRAMES, in After Body, No. and Spacing  
" " " Brdth. & 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 Plates 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  
" Intercoastal Plate for 1/2 length  
" Attached to outside plating with Angle  
BILGE KEELSON, Angles  
" Bulb or Plate above floors for  
" Intercoastal Plate for 1/2 length  
" Attached to outside plating with Angle  
BILGE STRINGER Angles  
" Bulb Plate for  
" Intercoastal Plate for  
" Attached to outside plating with Angle  
SIDE STRINGER Angles  
" Bulb or Intercoastal 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 Ing.  
" " 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 & thkness  
" Angle on ditto  
" Tie Plates  
" Flat of Deck, Material and thickness

## PLATING.

FLAT PLATE KEEL, breadth and thickness  
" Plating or inlaid thickness, & length appld  
PLATES in Garboard Strakes, brdth & thickness  
" From Garboard to lower part of Bilges  
" Bilges, number of Strakes and thickness  
" Of doubling at Bilge, or increased thickness,  
and length applied  
" from up. part of Bilge to lr. edge of Sh'rstrake  
Sheerstrake, breadth and thickness  
" Of plating at Sh'rsk. & lng. applied  
Poop Sides  
Raised Quarter Deck Sides  
Bridge Sides  
Forecastle Sides  
Lengths of Plating *10 spaces of frames*



Order for Special Survey No. \_\_\_\_\_ Date \_\_\_\_\_  
Order for Ordinary Survey No. \_\_\_\_\_ Date \_\_\_\_\_  
No. 201 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

State dates and initials of letters respecting this case 11<sup>th</sup> Aug. 91. (M). 21<sup>st</sup> Oct. 91. (E).

General Remarks (State quality of workmanship, &c.) This Steel twin screw steamer has been built in accordance with the approved plans, the Secretary's letters of the above dates, and in other respects in accordance with the Rules.

The steel used in the construction of the vessel has been manufactured at the Works set forth on this report and duly tested by one of the Society's Surveyors, and the workmanship throughout is good.

The Sledge trucks have been tested to height of upper deck and found satisfactory.

The forgings were manufactured by the Naval Construction and Armaments Co. Ltd. and examined during construction.

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

The FRAMES extend in one length from Middle line to Sledge truck gunwale. Riveted through Plates with 3/4 in. Rivets, about 5 apart.

The REVERSED ANGLE on floors and frames extend from Middle line to Upper deck in Sledge Comp. Before and abaft that to gunwale and lower deck also. Double under E & B. Seats.

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

Garboard, double riveted to B. Flat Plate Keel, with rivets 1 in. diameter, averaging 3 3/4 in. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clincher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 in. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble riveted; treble for half length; with rivets 3/4 in. dia., averaging 2 1/2 in. from cr. to cr.

Butts of 3 Strakes at Bilge for half length, treble riveted with Butt Straps 3/4 in. thicker than the plates they connect.

Edges from Bilge to Sheerstrake, worked clincher, double riveted; with rivets 7/8 in. dia., averaging 3 1/2 in. from centre to centre.

Butts from Bilge to Sheerstrake, worked carvel, treble riveted; treble for half length; with rivets 3/4 in. dia., averaging 2 1/2 in. from cr. to cr.

Edges of Sheerstrake, double riveted. Butts of Sheerstrake, treble riveted for half length amidships.

Butts of Main Stringer Plate, treble riveted for half length amidships. Single riveted Butt Straps to Stringer Plate for whole length.

Butts of Lower Bottom Plating double riveted for whole length. Butts of Centre Girder riveted.

Breadth of edge laps of Shell Plating in double riveting 6 x 5 1/2. Breadth of edge laps of Shell Plating in single riveting 19 x 3 1/2 to 9 3/4 x 3 1/2.

Butt Straps of Shell Plating breadth and thickness 19 x 3 1/2 to 9 3/4 x 3 1/2. Butts of Lapped breadth of laps.

Butt Straps of Keelsons, Stringer and Tie Plates, treble riveted.

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.? Siemens Martin Steel - Anglo. Barrow Hamatic S. Co. - Plates. Stockton Maximal.

Workmanship. Are the butts of plating planed and fitted? Yes.

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? No.

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

MASTS, SPARS, &c.

	Material	Total Length	DIAMETER AND THICKNESS			No. of Plates in round	ANGLES		RIVETING	
			At Partners	Heel	Hoards		Number	Size	Seams	Butts
Fore	Wood	One pole mast stepped on deck								
Lower Masts	Main	46-6	16"	11"	7"					
Mizen										

Bowsprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds 9.5.17. 2 1/2. Complete suit of stays 9.5.17. 3 1/4.

Sails. One. Suit of Sloop. Sails, and the following spare sails

EQUIPMENT No. LETTER ANCHORS as approved.

Number of Certificate	Weight, Ex. Stock	Weight of Stock	TEST, PER CERTIFICATE			Description of Anchor	Makers	Where and when tested and Superintendent			
			Tons	cwts	qrs						
14194	16 1 19		17	16	1 0	16	0	0	Stockless	Taylor's	Sipton 21 <sup>st</sup> Dec. 91.
14192	16 0 0		17	7	2 0	16	0	0	"	"	"
14193	18 0 14		19	2	0 21	18	0	0	"	"	"
14189	3 2 18		6	3	0 14	3	2	0	"	"	"

CHAIN CABLES.

Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of Test	Description	Makers of Cables	Where and when tested, and Superintendent	Material	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms of 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