

Spar, or Awning Dk. IRON OR STEEL STEAMER.

No. 18.201

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

Port of Sunderland Date of completion of Report 25th March 1896 Received at London Office
Survey held at Sunderland Date, First Survey 5th November 1895 Last Survey 23 March 1896 1896
On the Steel Screw Steamer UMTALI Rig Schooner

TONNAGE under Tonnage Deck... 2231.59

Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.

tonal under Upper Dk.

No. of Bridge House 39.53

No. of Forecasts 164.92

No. of Houses on Deck 64.32

No. of excess of Hatchways 113.00

No. of excess of Hatchways 13.79

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SPAR, AWNING OR PART AWNING DECKED VESSEL,

or a Vessel having a continuous Shade Deck.

CLASS 100. A.

FEET.

Half Breadth (moulded) 20.50

Depth from upper part of keel to top of Main Deck Beams 17.96

Girth of Half Midship Frame (as per Rule) 33.33

1st Number 71.79

Length 318.33

2nd Number 22852

Proportions—Breadths to Length 7.76

Depths to Length—Main Deck to top of Keel 17.72

Destined Voyage London

If Surveyed while Building, Afloat, & in Dry Dock Yes

Master H. Clark

Year of Appointment (1) As Master in service of owner of present vessel;—18.96 (2) As Master of this vessel;—18.96

Built at Sunderland

When built 1896 Launched 29th Feb 1896

By whom built James Lamb

Owners Bullard King & Co

Managers

Residence London

Port belonging to London

Dimensions of Ship per Register, Length 321 breadth 41.2 depth 17.85 Spar or Awn. Dk. Moulded depth, ft. 24 ins. 2 To Main Dk. Round up of Beam, Main Dk. 10 1/2 ins.

FRAMING.				FORGINGS AND CASTINGS.			
	Inches in Ship.	Inches in Ship.	Inches in Ship.		Inches in Ship.	Inches in Ship.	Inches in Ship.
FRAME, Angles, or Bars, for 1/2 length amidships	5 1/2	3	10	KEEL, Bar or Side Plates, depth and thickness	10 x 2 1/2	10 x 2 1/2	10 x 2 1/2
Do. for 1/2 at each end	5 1/2	3	10	STEM, moulding and thickness	10 x 5 1/2	10 x 5 1/2	10 x 5 1/2
Do. in way of Double Bottoms at Solid Floors	4 1/2	3	8	STERN-POST for Rudder do. do.	10 x 5 1/2	10 x 5 1/2	10 x 5 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	3	3	8	MAIN PIECE of Rudder, diameter at head	8	8	8
REVERSED FRAME, Angles	3 1/2	3 1/2	7	do. at heel	4	4	4
DEEP FRAMING, depth of girder	38	7	38	RUDDER, how constructed	Cast steel frame, solid plate		
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	38	7	38	Can the Rudder be unshipped afloat?	In complete		
Do. in way of Engines and Boilers				KEELSONS AND STRINGERS.			
Thickness at the ends of vessel	Cellular Bottom			CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
Depth at 1/2 the half-bdth. as per Rule				Rider Plate			
Height extended at the Bilges				Bulb Plate to Intercoastal Keelson			
DOORS & BRACKETS, in Cellular Bottoms	38	7	38	Horizontal Plates on Floors	Cellular Bottom		
Distance apart	48		48	Angles	Bottom as per plan		
ENTRE GIRDER, in Double bottom, depth and thickness	38	10	38	SIDE KEELSON, Angles			
Angles, Top	4	4	9	Bulb or Plate above floors, for length			
Angles, Bottom	6	4	9	Intercoastal Plate, for length			
DE GIRDERS, number and thickness	3	7	3	Attached to outside plating with Angle			
Angles	3 1/2	3 1/2	7	BILGE KEELSON, Angles			
MARGIN PLATE, depth (exclusive of flange) and thickness	24	8	24	Bulb or Plate above floors, for length			
Angles	3 1/2	3 1/2	8	Intercoastal Plate, for length			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	36	9	36	Attached to outside plating with Angle			
Thickness in Engine and Boiler space	20	10	20	BILGE STRINGER Angles			
Remainder in Holds	8	8	8	Bulb Plate, for length			
BEAMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7	9	7	Intercoastal Plate, for length			
Angles on upper edge				Attached to outside plating with Angle			
Average space	24		24	SIDE STRINGER Angles			
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	10	7 1/2	Bulb or Intercoastal Plate, for length			
Angles on upper edge				Attached to outside plating with Angle			
Average space	24		24	Spar, or Awning Deck Stringer Plates, breadth and thickness	54	11	54
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				Angle on ditto	4 x 4 x 9	4 x 4 x 9	4 x 4 x 9
Angles on upper edge				Tie Plates, fore and aft, outside Hatchways			
Average space	24		24	Diagonal Tie Plates, No. of prs.			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	8	8 1/2	Deck, * Iron or Steel, for whole length	6 x 3 1/2 x 9	6 x 3 1/2 x 9	6 x 3 1/2 x 9
Angles on upper edge	8	3	6	Wood Deck. Material and thickness	47 x 10	47 x 10	47 x 10
Average space	48		48	Main Deck Stringer Plate, breadth & thickness	47 x 9	47 x 9	47 x 9
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	8	Angles on ditto, No. 2	4 x 4 x 9	4 x 4 x 9	4 x 4 x 9
Angles on upper edge				Tie Plates, outside Hatchways			
Average space	48		48	Diagonal Tie Plates, No. of prs.			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	8	8 1/2	Deck, * Iron or Steel, for whole length	47 x 10	47 x 10	47 x 10
Angles on upper edge	8	3	6	Wood Deck. Material and thickness	47 x 10	47 x 10	47 x 10
Average space	48		48	Lower Deck Stringer Plates, br'dth & thckn's			
BEAMS, In 'tween Deck, size and spacing	25/8	48	25/8	Angles on ditto, No.			
Hold	37/8	48	37/8	Tie Plates, outside Hatchways			
Quarter, 'tween Dks.,				Deck, * Material and thickness			
in Hold				Hold, or Orlop Stringer Plate, br'dth & thckn's			
BEAMS, In Fore Body, No. and spacing	9	6 1/2	9	Angles on ditto, No.			
br'dth. & thickness	15	8	15	Tie Plates, outside Hatchways			
No. of Side Stringers	2	15	2	Deck, * Material and thickness			
BEAMS, In E. & B. Space, No. & spacing	4	5 1/2	4	Hold, or Orlop Stringer Plate, br'dth & thckn's			
br'dth. & thickness	15	8	15	Angles on ditto, No.			
BEAMS, In After Body, No. and spacing	7	6 1/2	7	Tie Plates, outside Hatchways			
br'dth. & thickness	15	8	15	Deck, * Material and thickness			
No. of Side Stringers	2	15	2	Poop Deck Stringer Plate, breadth & thickness	30	7	30
BEAMS, In Fore Body, No. and spacing	9	6 1/2	9	Angles on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
br'dth. & thickness	15	8	15	Tie Plates			
No. of Side Stringers	2	15	2	Deck, * Material and thickness	36	7	36
BEAMS, In E. & B. Space, No. & spacing	4	5 1/2	4	Bridge Deck Stringer Plate, br'dth & thickness	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
br'dth. & thickness	15	8	15	Angles on ditto	12	7	12
No. of Side Stringers	2	15	2	Tie Plates	12	7	12
BEAMS, In After Body, No. and spacing	7	6 1/2	7	Deck, * Material and thickness	30	7	30
br'dth. & thickness	15	8	15	Forecastle Deck Stringer Plate, br'dth & th'kns	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
No. of Side Stringers	2	15	2	Angles on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
BEAMS, In Fore Body, No. and spacing	9	6 1/2	9	Tie Plates			
br'dth. & thickness	15	8	15	Deck, * Material and thickness			
No. of Side Stringers	2	15	2	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.		AMIDSHIP.		Single or Double.	RIVETS.		BUTTS.		STRAPS.	IF LAPPED.				
	Breadth.	Thickness.	Breadth.	Thickness.			Breadth.	Thickness.		Breadth.	Thickness.	Breadth.	Thickness.			Breadth.	Thickness.		
FLAT PLATE KEEL	48 1/2	16	12	12	12	16	16	16	16	16	16	16	16	16	16				
GARBOARD OR A STRAKE	58	12	11	12	12	58	12	12	12	12	12	12	12	12					
B	58	11	9	11	11	58	11	11	11	11	11	11	11	11					
C	58	11	9	12	12	58	11	11	11	11	11	11	11	11					
D	62	11	9	11	11	58	11	11	11	11	11	11	11	11					
E	58	11	9	11	11	58	11	11	11	11	11	11	11	11					
F	58	11	9	9	9	58	11	11	11	11	11	11	11	11					
G	58	11	9	9	9	58	11	11	11	11	11	11	11	11					
H	46 1/2	13	10	10	10	46	13	13	13	13	13	13	13	13					
J	44	8	7	7	7	44	8	8	8	8	8	8	8	8					
K	40 1/2	11	9	9	9	40	11	11	11	11	11	11	11	11					
L																			
M																			
N																			
O																			
P																			
Q																			
DOUBLING OF FLAT PLATE KEEL																			
Length of Bilges	33	8	for 3/4 length																
Length of Sheerstrakes	34	8	for 3/4 length																
Length of Strake below																			
POOP SIDES	97																		
BRIDGE SIDES	7																		
FORECASTLE SIDES																			

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, Plating, &c. *Shells plates Iron. Concrete, Palmers & Stockton millwork.*

Plating, &c. *Shells plates Iron. Concrete, Palmers & Stockton millwork.*

Inner Bottom Plating, riveting of Edges *Double Butts*

Centre Girder Butts, *Double Butts*

Keelson Butts, *Double Butts*

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

Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from *Centre to tank side to stanchion 2 feet wide*

REVERSED FRAMES on floors and frames extend from *Centre to tank side, Bulk angle framing beyond*

MASTS, SPARS, &c.										
LOWER MASTS.	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	
Fore	<i>Shells</i>	<i>50.6</i>	<i>23 x 7/8</i>	<i>21 x 6/8</i>	<i>18 1/2 x 4/8</i>	<i>2</i>			<i>Double</i>	
Main	<i>Shells</i>	<i>52.6</i>	<i>23 x 7/8</i>	<i>21 x 6/8</i>	<i>18 1/2 x 4/8</i>	<i>2</i>			<i>Double</i>	
Mizen	<i>Shells</i>									

Bowsprit *Iron*

Topmasts, Yards and Remainder of Spars *Shells*

Rigging, Material and Size, Shrouds *Sat. 2. 1/2 in. 3 1/2*

Sails. *Iron*

Suit of *for 1st & 2nd*

Sails, and the following spare sails

EQUIPMENT No. 29175 LETTER T									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.	WEIGHT REQ. BY RULE.	Description of Anchor.	Makers.
		Cwts.	qrs.	lbs.	Cwts.				
28058	1st Bower	43	2	0		58	5	0	0
28918	2nd "	42	2	0		57	10	0	0
28935	3rd "	36	2	0		33	8	0	0
	Collective weight	122	2	0		121	1	0	0
29004	Stream	10	3	21		12	17	2	0
29005	Kedge	5	2	0		1	14	7	16
	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.					
				Supplied.	Per Rule.														
11878	120	1 1/2	88	24.0	2	240.178	Steel	E. F. Smith & Co. R. W. Lee	26.2.96	TOWLINE	100	4	33	10.4.33					
11803	120	1 1/2	88	24.0	2	240.178	Steel	"	26.2.96	HAWSE	90	3 1/2	20	90.96					
										WARP	90	2 1/2	15 1/2	90.8					

Boats *4 Life boats 2 of which are steel 20' 0" one other 22' 6" 1 of 18' 6"*

Pumps, Number *2 for 2 main one after held 1 for peak* Diameter of Barrel and Tail Pipe *6" 3"*

Windlass is *Clack Chapman and Chain* Capstan

Engine Room Skylights. How constructed? *Iron on Bridge deck*

What arrangements for deadlights in bad weather? *Solid shutters & Kells 4/2*

Coal Bunker Openings. How constructed? *Iron* How are lids secured? *Hatch bars* Height above deck? *12"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *Open Bunks opposite hatches.*

Ceiling in Holds, thickness and material *2 1/2 in*

Ceiling 'tween Decks, thickness and material *2 1/2 in*

Cargo Hatchways. How formed? *Usual cranes*

State size No. 1 Hatch (Forward) *16.0 x 14.0* No. 2 Hatch *24.0 x 14.0* No. 3 Hatch *20.0 x 14.0* No. 4 Hatch *18.0 x 14.0*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *No. 1. One web No. 2. Two webs No. 3 & 4. One web plate*

Buttresses, height above deck and description *3 1/4 x 7/8 steel*

Main Rail, material and size *Bulk angle, post-spur rail*

The above is a correct description. *James L. Smith*

Builder's Signature (sign only) *James L. Smith* Surveyor's Signature *William L. Sharp*

Surveyor to Lloyd's Register of British & Foreign Shipping

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

1895 Sept 7. 12 October 1 November 4. 6

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 plating? *No*

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

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

This is a Steel Spar deck steamer built in accordance with the plans as approved by the Committee, the Secretary of the above dates and in general conformity with the Rules. The workmanship and materials are good. Decks have been flooded with water and found satisfactory. Shutter Valves and water tight doors in working order.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *11.6* ft., R.Q.D. or Break *—* ft., Bridge Dk. *18.0* ft., F'castle *40.0* ft. (in feet and tenths). When the Poop is joined to the B.D., 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) *Two decks steel, upper deck sheathed with wood. 2 tiers of beams.*

Official No. ; Signal Letters

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

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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	<i>86.0</i>	<i>102</i>	Fore peak tank		
Double bottom, forward,	<i>140.0</i>	<i>215</i>	After peak tank		
Double bottom, under Engines and Boilers,	<i>38.0</i>	<i>79</i>	Midship deep tank,		<i>27.0</i>
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. *4001*

Date *24 Nov 95*

Order for Ordinary Survey No. *—*

Date *—*

No. *546* 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

Fees applied for, *25 March 1896*

The amount of Entry Fee *£ 5 : 0 : 0*

Special Survey Fee *£ 88 : 8 : 6*

Travelling Expenses, if any *£ 28 : 3 : 1896*

I am of opinion this Vessel should be Classed *A.1*

With, or without Freeboard, as condition of Class *Blue*

Committee's Minute *FRI. MAR 27 1896*

Character assigned *100A1 Steel Spar dk.*

+ 2 m 3, 96

15th (Stl.) + Spar dk (Stl. - pt m 3)

Mr. D

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