

Spar, or Awning Dk. **IRON OR STEEL STEAMER.**No. **9869**State if Report is also sent on the Machinery of the Vessel *Yes*Port of **WEST HARTLEPOOL**, Date of completion of Report **27.1.96**

Received at London Office

Survey held at **WEST HARTLEPOOL**Date, First Survey **12<sup>th</sup> Aug<sup>r</sup> 1895**

Last Survey

**24<sup>th</sup> Jan<sup>y</sup> 1896**On the **Screw Steamer****"GRANTOR"**Rig **Fore & Aft Schooner**TONNAGE under Tonnage Deck... **2879.67**

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

Total under Upper Dk. **2879.67**

Do. of Poop

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of

Machinery Room

Tonnage

Space

Crown of

Room

FOR FEES...

Main Room

Navigation Spaces

Tonnage

on Beam...

SPAR, AWNING OR PART AWNING-DECKED VESSEL,

or a Vessel having a continuous Shade Deck.

CLASS **\*100A1**

FEET.

Half Breadth (moulded) ... **21.42**Depth from upper part of keel to top of Main Deck Beams **21.46**Girth of Half Midship Frame (as per Rule) ... **39.25**1st Number ... **82.13**Length ... **313.33**2nd Number ... **25732**Proportions—Breadths to Length ... **7.31**Depths to Length—Main Deck to top of Keel ... **14.6**Master **G. F. W. Balleine**Year of Appointment (1) As Master in service of owner of present vessel—**1886**  
(2) As Master of this vessel—**1895**Built at **West Hartlepool**When built **1895-6** Launched **5<sup>th</sup> Dec<sup>r</sup> 1895**By whom built **Furness Withy & Co. Lim.**Owners **J. Holman & Sons**

Managers

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

Residence **London**Port belonging to **London**Destined Voyage **Rio Janeiro via Cardiff** Surveyed while Building, Afloat, or in Dry Dock (in Central Dry Dock)

TH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, top of Floors to Spar or Awn. Dk. Beam	Feet.	Inches.	Power of	Horse.	No. of Decks with flat laid
or Rule...	<b>313</b>	<b>4</b>	Moulded.	<b>42</b>	<b>10</b>	Do. do. Main Deck Beams	<b>18</b>	<b>1 1/2</b>	Engines	<b>246</b>	No. of Tiers of Beams <b>Two</b>

Dimensions of Ship per Register, Length **315.0** breadth **42.0** depth **24.7** Spar or Awn. Dk. Moulded depth, ft. **20** ins. **7 1/2** To Main Dk. Round up of Beam, Main Dk. **10** ins.

FRAMING.				FORGINGS AND CASTINGS.				Inches in Ship.		Inches per Rule.	
	Inches in Ship.	Inches in Ship.	20ths in Ship.		Inches in Ship.	Inches in Ship.	20ths in Ship.				
IE, Angles or L- or Bars, for 1/2 length amidships	<b>6</b>	<b>3 1/2</b>	<b>11</b>	HEEL, Bar or Side Plates, depth and thickness	<b>10</b>	<b>2 1/4</b>	<b>10</b>	<b>2 1/4</b>	<b>10</b>	<b>2 1/4</b>	<b>10</b>
for 1/2 at each end	"	"	<b>10</b>	STEM, moulding and thickness	<b>10</b>	<b>6</b>	<b>10</b>	<b>6</b>	<b>10</b>	<b>6</b>	<b>10</b>
in way of Double Bottoms at Solid Floors	<b>3 1/2</b>	<b>3 1/2</b>	<b>8-7</b>	STERN-POST for Rudder do. do.	<b>10</b>	<b>6</b>	<b>10</b>	<b>6</b>	<b>10</b>	<b>6</b>	<b>10</b>
at intermdt. Bkts.	<b>7</b>	<b>3 1/2</b>	<b>8-7</b>	" " for Propeller	<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>
Distance of Frames from moulding edge to moulding edge, all fore and aft	<b>24</b>		<b>24</b>	MAIN PIECE of Rudder, diameter at head	<b>6 1/2</b>	<b>4</b>	<b>6 1/2</b>	<b>4</b>	<b>6 1/2</b>	<b>4</b>	<b>6 1/2</b>
do. at heel				do. at heel							
BASED FRAME, Angles				RUDDER, how constructed <b>Forged iron frame, Plated</b>							
depth of girder	<b>Iron 40</b>	<b>7/16</b>	<b>40</b>	Can the Rudder be unshipped afloat? <b>Yes</b>							
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	<b>Iron</b>	<b>8/16</b>	<b>8/16</b>	KEELSONS AND STRINGERS.							
in way of Engines and Boilers				CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate							
thickness at the ends of vessel				" Rider Plate							
depth at 1/2 the half breadth as per Rule				" Bulb Plate to Intercoastal Keelson							
height extended at the Bilge				" Horizontal Plates on Floors							
ORS & BRACKETS, in Cell Dble Bottoms	<b>Iron</b>	<b>7/16</b>	<b>7/16</b>	" Angles							
Distance apart	<b>Alternate frames</b>			" SIDE KEELSON, Angles							
TRE GIRDER, in Double bottom, depth and thickness	<b>40</b>	<b>10</b>	<b>40</b>	" Bulb or Plate above floors, for lng.							
" " Angles, Top	<b>4</b>	<b>4</b>	<b>9</b>	" Intercoastal Plate, for lng.							
" " Bottom	<b>6 1/2</b>	<b>4</b>	<b>9</b>	" Attached to outside plating with Angle							
E GIRDERS, number and thickness	<b>Iron</b>	<b>7/16</b>	<b>Iron</b>	" BILGE KEELSON, Angles							
" Angles	<b>3 1/2</b>	<b>3 1/2</b>	<b>8-6</b>	" Bulb or Plate above floors, for lng.							
GIN PLATE, depth (exclusive of flange) and thickness	<b>33</b>	<b>8</b>	<b>33</b>	" Intercoastal Plate, for lng.							
" Angles	<b>4</b>	<b>3</b>	<b>8</b>	" Attached to outside plating with Angle							
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	<b>Iron</b>	<b>8/16</b>	<b>8/16</b>	" BILGE STRINGER Angles							
" " thickness in Engine and Boiler space	<b>Iron</b>	<b>7/16</b>	<b>7/16</b>	" Bulb Plate, for lng.							
Remainder in Holds	<b>Iron</b>	<b>7/16</b>	<b>6</b>	" Intercoastal Plate, for lng.							
AMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<b>6</b>	<b>3</b>	<b>8</b>	" Attached to outside plating with Angle							
Angles on upper edge	<b>24</b>		<b>24</b>	" SIDE STRINGER Angles							
Average space	<b>11</b>	<b>6</b>	<b>10</b>	" Bulb or Intercoastal Plate, for lng.							
AMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<b>48</b>		<b>48</b>	" Attached to outside plating with Angle							
Angles on upper edge				" Spar or Awning Deck Stringer Plates, breadth and thickness	<b>Iron 72</b>	<b>8/16</b>	<b>72</b>	<b>8/16</b>			
Average space				" Angle on ditto	<b>4</b>	<b>4</b>	<b>9</b>	<b>4</b>	<b>4</b>	<b>9</b>	
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Tie Plates, fore and aft, outside Hatchways							
Angles on upper edge				" Diagonal Tie Plates, No. of prs.							
Average space				" Deck * Iron or Steel, for whole lng.			<b>5/16</b>		<b>5/16</b>		
AMS, Hold, or Orlop, Plate or Tee Bulb				" Wood Deck, Material and thickness	<b>Iron 72</b>	<b>1/16</b>	<b>72</b>	<b>1/16</b>			
Angles on upper edge				" Main Deck Stringer Plate, breadth & thickness	<b>4</b>	<b>4</b>	<b>9</b>	<b>4</b>	<b>4</b>	<b>9</b>	
Average space				" Angles on ditto, No. 2							
AMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Tie Plates, outside Hatchways							
Angles on upper edge				" Diagonal Tie Plates, No. of prs.							
Average space				" Deck * Iron or Steel, for whole lng.			<b>9 7/16</b>		<b>9 7/16</b>		
AMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Wood Deck, Material and thickness							
Angles on upper edge				" Lower Deck Stringer Plates, breadth & thickness							
Average space				" Angles on ditto, No.							
AMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Tie Plates, outside Hatchways							
Angles on upper edge				" Deck * Material and thickness							
Average space				" Hold, or Orlop Stringer Plate, breadth & thickness							
LLAKS, In tween Deck, size and spacing	<b>1/2</b>	<b>Int frame division</b>	<b>1/16</b>	" Angles on ditto, No.							
" Hold	<b>1/16</b>	<b>Iron frame division</b>	<b>8</b>	" Tie Plates							
" Quarter, tween Bks., "				" Deck, Material and thickness							
" in Hold				" Roop Deck Stringer Plate, breadth & thickness							
EB-FRAMES, In Fore Body, No. and spacing	<b>Seven - 5 to 6 frame spaces</b>		<b>8</b>	" Angles on ditto							
" " breadth & thickness	<b>Two</b>		<b>Two</b>	" Tie Plates							
" No. of Side Stringers	<b>Five - 4 to 5 frame spaces</b>		<b>8</b>	" Deck, Material and thickness							
EB-FRAMES, In E. & B. Space, No. & spacing	<b>Seven - 5 to 6 frame spaces</b>		<b>8</b>	" Forecastle Deck Stringer Plate, breadth & thickness							
" " breadth & thickness	<b>Two</b>		<b>Two</b>	" Angles on ditto							
EB-FRAMES, In After Body, No. and spacing	<b>Seven - 5 to 6 frame spaces</b>		<b>8</b>	" Tie Plates							
" " breadth & thickness	<b>Two</b>		<b>Two</b>	" Deck, Material and thickness							
" No. of Side Stringers	<b>Three - 3 1/2</b>	<b>3 1/2</b>	<b>8</b>	" Roop Deck Stringer Plate, breadth & thickness							
" Size of Angles on Tee Bars to Web Frames	<b>3 1/2</b>	<b>3 1/2</b>	<b>8</b>	" Angles on ditto							
RACKET PLATES to Stringers between Web Frames, depth and thickness				" Tie Plates							



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		Breadth.	For what Length.
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.				
FLAT PLATE KEEL	48	16	12	12	48	16	Double	6	4	4	3R-24A	1	3 1/2	19	20				
GARBOARD OR A Strake	57	12	18	12		12		5 1/2	7/8	3 1/2		7/8	3 1/2					9	24A
B "	54	11	9	11		11													
C "	57	12	9	13		12													
D "	54	11	9	11		11					3R-34A			16 1/2	15				
E "	40	12	9	12		12									16				
F "	48	11	9	11		11									15				
G "	44	12	9	12		12									16				
H "	48	11	9	9		11									15				
J "	45	12	9	9		12									16				
K "	48	11	9	9		11									15				
L "	52	17	10	10	52	17	Single	3				1	3 1/2	19	21				
M "	60	8	7	7		8						3/4	2 7/8	14 1/2	12				
N "																			
O "																			
P "																			
Q "																			
DOUBLING of Flat Plate Keel																			
Length and thickness of Bilges																			
of Sheerstrakes																			
of Strake below																			
POOP SIDES																			
BRIDGE SIDES																			
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.?

*Build Steel - Westpool S & S Co.; Boleker Vaughan & Co.*

*Palmer's Co.; Consett; Norman Long & Co.*

*Best Iron - Stewton Mel. Iron Co.; J. Hill & Co.*

**Span or Awning** (Butts, treble riveted for 7 length amidship.)

**Stringer Plate** (Straps, single, double or overlapped for 3/4 length amidship.)

**Main Stringer** (Butts, treble riveted for 7 length amidship.)

**Plate** (Straps, single, double or overlapped for 3/4 length amidship.)

**Butts of Bilge & Side Stringers and Tie Plates**, treble or double riveted?

**Inner Bottom Plating**, riveting of Edges *Double Single Butts* 2 R. for 1/2 L.

**Centre Girder Butts**, 2 R. 4 R. riveted **Keelson Butts**, riveted.

**Frames**, riveted through Plates with 7/8 in. Rivets, about 6 apart.

**Rivets**, state whether Iron or Steel. *Iron*

**FRAMES** extend in one length from *Tank Side* to *gunwale*

**REVERSED FRAMES** on floors and frames extend from

MASTS, SPARS, &c.											
		Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.
				At Partners.	Heel.	Hounds.	Head.		Number.	Size.	
LOWER MASTS....	Fore .....	<i>Iron</i>	54.9	22 x 5/16	20 1/2 x 5/16	17 1/2 x 5/16	16 1/2 x 5/16	2	✓	✓	Single ✓ Treble
	Main .....	<i>u</i>	55.9	21 x 5/16	19 1/2 x 5/16	16 1/2 x 5/16	16 x 5/16	2	✓	✓	<i>u</i>
	Mizen .....										
<b>Boomsprit</b>											
Topmasts, <del>Yards</del> and Remainder of Spars <i>wood topmasts (fitted)</i>											
<b>Rigging</b> , Material and Size, <b>Shrouds</b> <i>3 3/4 gal. iron wire</i> <b>Stays</b> <i>4 1/4 gal. iron wire</i>											
<b>Sails</b> <i>One</i> Suit of <i>Sails, and the following spare sails</i>											

EQUIPMENT No. 28948 LETTER T ✓										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.				
28608	1st Bower .	43	2	21	—	—	—	38	8	3	0	42	2	0	Taylor's patent stockless Drop test certificates produced for cast steel heads. Common —	J. Taylor & Sons.	28.11.95	Sunderland
28607	2nd „ ..	40	1	0	—	—	—	35	18	3	0	42	2	0			—	J. Harbress
28606	3rd „ ..	37	1	14	—	—	—	34	0	2	14	36	1	0			—	—
	Collective weight	121	1	2								121	1	0				
28476	Stream ....	10	3	0	2	2	21	12	13	0	14	10	3	0				J. Harbress
28441	Kedge .....	5	2	0	1	1	14	7	16	1	0	5	2	0		J. Harbress	—	J. Harbress
	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.										
11736	240	1 7/8	80%	15 1/4	4 28.3	24 4 25.1	240 - 1 1/16	Stud	J. Hartshorne	22.10.95	Liverpool	TOWLINE	100	4	33 tons 100-4
11765	75	1 1/8	34 1/8	22 1/4	48.3	24 48.2	75 - 1 1/16	link	J. Hartshorne	22.10.95	J. Hartshorne	HAWSER	90	3 1/4	22 " 90-3 1/4
												WARP	90	8	90-8
															and others.

**Boats** *2 Life boats and two others*

**Pumps**, Number *4 Hand pumps & 2 engine pumps as appd* Diameter of Barrel and Tail Pipe *6" and 2 1/2"*

**Windlass** is *Emerson Walker & Thompson Bros.* **Capstan**

**Engine Room Skylights**.—How constructed? *Iron on iron casing 7.0 above awning deck. Boiler casing 4.6" high.*

What arrangements for deadlights in bad weather? *Thick glass bulwarks in iron hinged covers.*

**Coal Bunker Openings**.—How constructed? *3 Hatches each side* How are lids secured? *Bars & tarpaulins* Height above deck? *18"*

Number of **Scuppers**, and number and dimensions of **Freeing Ports**, &c. *open bulwarPs.*

**Ceiling in Holds**, thickness and material *2 1/2 x 1/2" Cope iron* **Ceiling 'tween Decks**, thickness and material *2 1/2 x 1/2" Cope iron*

**Cargo Hatchways**.—How formed? *Steel plate coamingPs* **Hatches**, If strong and efficient? *Yes. Solid.*

State size **No. 1 Hatch** (Forward) *19.10 x 15.9 x 24"* **No. 2 Hatch** *21.10 x 15.10 x 24"* **No. 3 Hatch** *23.10 x 15.10 x 24"* **No. 4 Hatch** *23.10 x 15.10 x 24"*

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

**Hatchways**, *3 iron rafters in each hatch* **No. of Breasthooks** *4* **dup floors** **No. of Crutches** *1* **dup floors.**

**Bulwarks**, height above deck and description *Open bulwarPs* **Main Rail**, material and size

The above is a correct description **FOR FURNESS, WITBY & CO. LIMITED.** Surveyor's Signature *Chas. Forth*

Builder's Signature (here only) *L. Mills* 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 - June 7. Aug. 22. Nov. 18. Dec. 12

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?

A few

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

Yes

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

The workmanship is good, and the vessel has been constructed in accordance with the approved plans (4 in No.) which together with one Forging Report are attached hereto.

The collision bulkhead has been tested by filling fore peak with water to height of load line; and the decks and tunnel have been tested by water and found good. Hand pumps tried and found to work satisfactorily.

Drawings  
Midship Section  
Profile  
Pumping Plan  
Iron Masts.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. or Break ☒ ft., Bridge Dk. ☒ ft., F'castle ☒ 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) One deck (iron), and Awning deck (iron), and web frames.

Official No. 105782; Signal Letters

How are the surfaces preserved from oxidation? Inside Portland Cement & 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,	100	232	Fore peak tank,		
Double bottom, forward,	104	270	After peak tank,		63
Double bottom, under Engines and Boilers,	50	153	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.)		
		655			

State whether the above have been tested as required by the Rules ☒

Order for Special Survey No. 16344

Date 14<sup>th</sup> Aug<sup>r</sup>, 1895

Order for Ordinary Survey No.

Date

No. 220 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

Built under Special Survey.

First visit, 12<sup>th</sup> Aug<sup>r</sup>, 1895

Last visit, 24<sup>th</sup> Jan<sup>y</sup>, 1896

Total No. of Visits 50

The amount of Entry Fee.....£ 5 :  
Special Survey Fee ...£ 95 : 10 :  
Travelling Expenses, if any £ : :

Fees applied for,

27. 1. 1896

Received by me,

27. 1. 1896

Certificate to be sent to

I am of opinion this Vessel should be Classed  
With, or without Freeboard, as condition of Class

100AT "Awning deck" with Freeboard

Chas. Forling

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

Committee's Minute

FRI. JAN 31 1896

Character assigned

100AT Steel  
+ 2 me 1.96  
Awning deck with freeboard 5' 1/2  
1 St (iron) + Awning deck (iron) + Web frames

The Surveyors are requested not to write on or below the Committee's Minute.

Hull Certificate, 1896



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