

Spar, ~~Awning~~ Dk. ~~IRON~~ ~~OR~~ STEEL STEAMER.MON. SEP 21 1896
No. 10063

Port of WEST HARTLEPOOL, Date of completion of Report 16.9.96

Received at London Office

Survey held at West Hartlepool Date, First Survey 20th March

Last Survey

15th Sept 1896

On the Screw Steamer

COMMONWEALTH

Rig Fore & Aft Schooner

TONNAGE under
Tonnage Deck...
Do. between Tonnage Dk.
and 3rd. 4th. Spar or
Awning Dk.

Total under Upper Dk. 3188.14

Do. of Poop Chart No. 4.08

Do. of Bridge House 58.00

Do. of Forecasts 44.17

Do. of Houses on Deck 22.44

Do. of excess of Hatchways 15.17

Do. above Crown of

Engine Room 21.09

Gross Tonnage 3353.09

Less Crew Space 60.96

Less above Crown of

Engine Room 21.09

TONNAGE FOR FEES... 3271.05

Less Engine Room 1072.99

Less Navigation Spaces 36.48

Register Tonnage

as cut on Beam... 2182.97

SPAR, ~~AWNING~~ OR PART ~~AWNING~~-DECKED VESSEL,

or a Vessel having a continuous Shade Deck.

CLASS #100A1

FEET.

Half Breadth (moulded) 22.42

Depth from upper part of keel to top of Main Deck Beams 22.12

Girth of Half Midship Frame (as per Rule) 40.38

1st Number 84.92

Length 328.2

2nd Number 27870

Proportions—Breadths to Length 7.3

Depths to Length—Main Deck to top of Keel 14.8

Destined Voyage Newport to Calcutta

Master W. Anderson

Year of Appointment (1) As Master in service of
owner of present vessel:—1896
(2) As Master of this
vessel:—1896

Built at West Hartlepool

When built 1896 Launched 25th July 1896

By whom built Furness Withy & Co. Ltd

Owners R. Stewart & Co.

Managers

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

Residence 39 Old Hall St. Liverpool

Port belonging to Liverpool

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, top of Floors to Spar	Feet.	Inches.	Power of	Horse.	No. of Decks with flat laid
as per Rule	328	2 1/2	Moulded	44	10	Do. do. Main Deck Beams	26	3	Engines	260	No. of Tiers of Beams
							18	8			

Dimensions of Ship per Register, Length	330.0	breadth	45.1	depth	26.4	Spar	Do. Dk. Beams	18.7	Main Deck.	Moulded depth, ft. 21 ins. 2 1/2	To Main Dk.	Round up of	10	ins.
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FRAMING.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
FRAME, Angles, or Bars, for 1/2 length amidships	6	3 1/2	11	6	3 1/2	11
Do. for 1/2 at each end	"	"	10	"	"	10
Do. in way of Double Bottoms at intermdt. Bkts.	7	3 1/2	8 1/2	7	3 1/2	8 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	"	"	24	"	"
REVERSED FRAME, Angles	"	"	"	"	"	"
DEEP FRAMING, depth of girders	"	"	"	"	"	"
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	40	"	9	40	"	9
" in way of Engines and Boilers	40	"	8	40	"	8
" thickness of the ends of vessel	"	"	"	"	"	"
" depth at 1/2 the half bath as per Rule	"	"	"	"	"	"
" height extended at the Bilge	"	"	"	"	"	"
FLOORS & BRACKETS, in Cell Dble Bottoms	"	"	"	"	"	"
Distance apart	"	"	"	"	"	"
CENTRE GIRDER, in Double bottom, depth and thickness	40	"	10	40	"	10
" Angles, Top	4	"	9	4	"	9
" Bottom	6 1/2	"	9	6 1/2	"	9
SIDE GIRDERS, number and thickness	one	"	9	one	"	9
MARGIN PLATE, depth (exclusive of flange) and thickness	3 1/2	"	8	26	"	8
" Angles	4	"	8	3 1/2	"	8
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	60	"	9	"	"	9
" thickness in Engine and Boiler space	Iron	"	10	Iron	"	10
" Remainder in Holds	"	"	"	"	"	"
BEAMS, Spar on Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9	"	8	9	"	8
" Angles on upper edge	"	"	"	"	"	"
Average space	48	"	"	48	"	"
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	"	11	10 1/2	"	10
" Angles on upper edge	"	"	"	"	"	"
Average space	48	"	"	48	"	"
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	"	"	"	"	"	"
" Angles on upper edge	"	"	"	"	"	"
Average space	"	"	"	"	"	"
BEAMS, Hold, or Orlop, Plate or Tee Bulb	"	"	"	"	"	"
" Angles on upper edge	"	"	"	"	"	"
Average space	"	"	"	"	"	"
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	"	7	5 1/2	"	7
" Angles on upper edge	"	"	"	"	"	"
Average space	24	"	"	24	"	"
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	"	8	7	"	8
" Angles on upper edge	"	"	"	"	"	"
Average space	48	"	"	48	"	"
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	"	9	8	"	9
" Angles on upper edge	"	"	"	"	"	"
Average space	48	"	"	48	"	"
PILLARS, in tween Deck, size and spacing	5 1/2	"	Iron grain division	"	"	"
" Hold	5 1/2	"	Iron grain division	"	"	"
" Quarter, tween Dks., in Hold	"	"	"	"	"	"
WEB-FRAMES, in Fore Body, No. and spacing	8	"	6 frame spaces apart	"	"	"
" breadth & thickness	18	"	8	18	"	8
" No. of Side Stringers	Three	"	"	Three	"	"
WEB-FRAMES, in E. & B. Space, No. & spacing	5	"	4 to 5 frame spaces apart	"	"	"
" breadth & thickness	18	"	8	18	"	8
" No. of Side Stringers	Three	"	"	Three	"	"
WEB-FRAMES, in After Body, No. and spacing	9	"	6 frame spaces apart	"	"	"
" breadth & thickness	18	"	8	18	"	8
" No. of Side Stringers	Three	"	"	Three	"	"
" Size of Angles or Tee Bars to Web Frames	3 1/2	"	3 1/2	8	"	3 1/2
BRACKET PLATES to Stringers between Web Frames, depth and thickness	18	"	8	18	"	8

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	10 1/2 x 2 3/4	10 1/2 x 2 3/4
STEM, moulding and thickness	11 x 6	11 x 6
STERN-POST for Rudder do. do.	11 x 6	11 x 6
" for Propeller	11 x 6	11 x 6
MAIN PIECE of Rudder, diameter at head	9	9
do. at heel	4 1/2	4 1/2

RUDDER, how constructed Single plate rudder. Forged.
Can the Rudder be unshipped afloat? Yes.

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate 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 lng.	"	"	"	"	"	"
" Intercoastal Plate, for length	"	"	"	"	"	"
" Attached to outside plating with Angle	"	"	"	"	"	"
BILGE KEELSON, Angles	"	"	"	"	"	"
" Bulb or Plate above floors, for lng.	"	"	"	"	"	"
" Intercoastal Plate, for length	"	"	"	"	"	"
" Attached to outside plating with Angle	"	"	"	"	"	"
BILGE STRINGER Angles	"	"	"	"	"	"
" Bulb Plate, for lng.	"	"	"	"	"	"
" Intercoastal Plate, for length	"	"	"	"	"	"
" Attached to outside plating with Angle	"	"	"	"	"	"
SIDE STRINGER Angles	"	"	"	"	"	"
" Bulb or Intercoastal Plate, for lng.	"	"	"	"	"	"
" Attached to outside plating with Angle	"	"	"	"	"	"

Spar, on Awning Deck Stringer Plates, breadth and thickness	75	"	75	"
" Angle on ditto	4 x 4	"	4 x 4	"
" Tie Plates, fore and aft, outside Hatchways	"	"	"	"
" Diagonal Tie Plates, No. of pairs	2	"	2	"
" Deck * Iron or Steel, for whole lng.	7/16	"	7/16	"
" Wood Deck, Material & thickness	"	"	"	"
Main Deck Stringer Plate, breadth & thickness	75	"	75	"
" Angles on ditto, No. 2	3 1/2 x 3 1/2	"	3 1/2 x 3 1/2	"
" Tie Plates, outside Hatchways	"	"	"	"
" Diagonal Tie Plates, No. of pairs	"	"	"	"
" Deck * Iron or Steel, for whole lng.	7/16	"	7/16	"
" Wood Deck, Material & thickness	"	"	"	"
Lower Deck Stringer Plates, breadth & thickness	"	"	"	"
" Angles on ditto, No.	"	"	"	"
" Tie Plates, outside Hatchways	"	"	"	"
" Deck * Material and thickness	"	"	"	"
Hold or Orlop Stringer Plate, breadth & thickness	"	"	"	"
" Angles on ditto, No.	"	"	"	"
" Tie Plates, outside Hatchways	"	"	"	"
" Deck * Material and thickness	"	"	"	"
Poop Deck Stringer Plate, breadth & thickness	Iron	"	Iron	"
" Angles on ditto	3 1/2 x 3 1/2	"	3 1/2 x 3 1/2	"
" Tie Plates	"	"	"	"
" Deck. Material and thickness	"	"	"	"
Bridge Deck Stringer Plate, breadth & thickness	Iron	"	Iron	"
" Angles on ditto	3 1/2 x 3 1/2	"	3 1/2 x 3 1/2	"
" Tie Plates	"	"	"	"
" Deck. Material and thickness	"	"	"	"
Forecastle Deck Stringer Plate, breadth & thickness	24	"	24	"
" Angles on ditto	3 x 3	"	3 x 3	"
" Tie Plates	"	"	"	"
" Deck. Material and thickness	"	"	"	"

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.	Number.		Thickness.	STIFFENERS.			Single or Double Frames.	Height up.
	In Vessel.	Per Rule.		<i>bulk angles</i>				
				Horizontal.	Vertical.	Spacing		
			16ths or 20ths.	Inches.	Inches.	Inches.		
W. T. BULKHEADS	5	5	7/16	6 1/2 x 3 1/2	6 1/2 x 3 1/2	48	Double	Spar on
PARTITION after Engine Mtn. Rk.	2	2	7/16	7 1/2 x 3 1/2	7 1/2 x 3 1/2	48	—	—
LONGITUDINAL, in Hold	1	1	7/16	Double	8 1/2 x 7 1/2	48	—	—
in tween Dks.	1	1	7/16	Double	4 x 2 x 7 1/2	48	—	—

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

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.		BUTTS.										
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing cr. to cr.	RIVETS.	Double or Treble and for what Length.	Diam.	Spacing cr. to cr.	STRAPS.	IF LAPPED.			
																	Inches.	Inches.	Inches.
FLAT PLATE KEEL (If Bar Keel, state Riveting)	40	24	12	12	40	24	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
GARBOARD OR A Strake	50	12	11	12	50	12	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
B " "		11	9	13		11	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
C " "		12	8 1/2	8 1/2		12	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
D " "		11	9	8 1/2		11	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
E " "		13	10	15		13	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
F " "		12	10	14		12	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
G " "		13	10	13		13	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
H " "		11	9	11		11	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
J " "		12	9	12		12	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
K " "		11	9	9		11	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
L " "	44	13	10	10		13	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
M " "		10	7	7		10	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
N " "	40	13	9	9		13	Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
O " "							Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
P " "							Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
Q " "							Double	6 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2	1 1/2	4	2 1/2		
DOUBLING of Flat Plate Keel	Increased in thickness in lieu of doubling																		
Length and thickness of Sheerstrakes	Spar Sheerstrake doubled at ends of bridge																		
POOP SIDES																			
BRIDGE SIDES	7					7													
FORECASTLE SIDES	7	7				7													

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.?

Midship Plate Frames - Borden & Vaughan Co. N. York.

Consult. Dorman Long Co.

Best Iron - J. Hill & Co.

FRAMES extend in one length from Tank side to gunwale.

REVERSED FRAMES on floors and frames extend from

FRAMES extend in one length from Tank side to gunwale.

REVERSED FRAMES on floors and frames extend from

MASTS, SPARS, &c.									
LOWER MASTS.	Material.	Total Length	DIAMETER AND T-JUNCTIONS.			No. of Plates in round.	ANGLES.	RIVETING.	BUTTS.
			At Partners.	Heel.	Hounds.				
Fore	Steel	57.9	21 x 7/8	19 1/2 x 3/4	17 x 3/4	2	Single	Double	
Main	Steel	53.9							
Misc.									

Topmasts, Vangs and Remainder of Spars wood topmasts (telescopic)

Rigging, Material and Size, Shrouds 3/4 gal. iron wire

Sails. One Suit of Sails, and the following spars

EQUIPMENT No. 34567 LETTER 2													
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.
29782	1st Bower	47	3	14			41	0	3	21	Byers	25.6.96 H.2. Welford	
29799	2nd "	47	2	14			40	17	3	7	Byers	29.6.96 Sunderland	
29817	3rd "	40	2	14			36	4	1	14	Byers	30.6.96 Sunderland	
	Collective weight	135	0	14			135	1	0				
29809	Stream	4	2	7			13	10	0	0	11	2	0
29822	Kedge	5	0	0			8	0	2	14	5	3	0

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.														
12258	270	2"	100	72	522.3.17	522.3.0	270-2"	270-2"	270-2"	270-2"	270-2"	270-2"	270-2"	270-2"					
12263	90	1 3/8"	38	25 1/2	15.3.26	15.3.0	90-1 3/8"	90-1 3/8"	90-1 3/8"	90-1 3/8"	90-1 3/8"	90-1 3/8"	90-1 3/8"	90-1 3/8"					

Boats 2 life boats & 2 others.

Pumps, Number 2 Hand pumps

Windlass is Emerson Walker & Thompson Bros. Capstan

Engine Room Skylights. How constructed? Iron on iron casing 50" above bridge deck.

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

Coal Bunker Openings. How constructed? 3 Hatches each side. How are lids secured? Bars & latches. Height above deck? 9"

Number of Scuppers, and number and dimensions of Freeing Ports, &c. 9 Scuppers, 9 ports (36 x 18) each side.

Ceiling in Holds, thickness and material 2 1/2" W.B.

Cargo Hatchways. How formed? Steel plate coamings 24" high.

State size No. 1 Hatch (Forward) 18.0 x 15.0 No. 2 Hatch 24.0 x 16.0 No. 3 Hatch 24.0 x 16.0 No. 4 Hatch 24.0 x 16.0

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 1 web in No. 1 Hatch, 2 webs in Nos. 2, 3 & 4 Hatches.

3 Webs in each hatch.

Bulwarks, height above deck and description 42" to 56" high - 5/8" steel.

Main Rail, material and size 6" Bull angle

The above is a correct description.

Builder's Signature (here only) J. Mills

Surveyor's Signature Chas. Fowling

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)

1896 - Feb. 26. March 20. 28. 30. May 21. Aug. 18

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 & the vessel has been constructed in accordance with the approved plans (4 in No.) which together with one Jorgins Report are attached hereto.

The forepeak has been filled with water to height of load line & collision bulkhead found good. The iron weather decks, and tunnel have been tested by hose & found good; the hand pumps tried & found to work satisfactorily.

Drawings.

Midship Section

Profile

Pumping arrangement

Stal 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 25 ft., R.Q.D. or Break ft., Bridge Dk. 78 ft., F'castle 31 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 (steel) Spar deck (steel) 12 tiers beams & web frames.

Official No. ; 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 Yes

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft.	10.8	21.4	Fore peak tank,		
Double bottom, forward,	11.6	24.6	After peak tank,		
Double bottom, under Engines and Boilers,	4.8	12.7	Midship deep tank,		
Double bottom, if under Engines only,		5.87	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. 1649

Date 27. Feb. 1896

Order for Ordinary Survey No.

Date

No. 226 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, 19.9.1896

Received by me, 19.9.1896

Travelling Expenses, if any £

I am of opinion this Vessel should be Classed 100A1. Spar deck

Without Freeboard, as condition of Class

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

Committee's Minute TUES. SEP 22 1896

Character assigned 100 A (steel) Spar deck

1 DK (steel) & spar deck (p.s. in & p.s. pl.) & web frames

a.s.b.p. + L.M. 6996

Hull Certificate, 19.9.1896