

Spar, Awning or Part Awning Dk.

IRON OR STEEL STEAMER.

(Received at London Office)

Date of completion of Report 26th Sept. 1891 Part of Greenock

No. 10348 Survey held at Port Glasgow Date, First Survey 27th April 1891 Last Survey 23rd Sept. 1891 On the Steel Screw Steamer Lady Havelock Rig Schooner

Table with columns for Tonnage under Deck, Total under Upper Deck, Gross Tonnage, and Register Tonnage. Includes sub-rows for various deck areas like Poop, Rais d'Or, and Engine Room.

Table with columns for SPAR, AWNING OR PART AWNING DECKED VESSEL, CLASS 100A.1, Half Breadth, Depth, Girth, 1st Number, Length, 2nd Number, Proportions, and Destined Voyage.

Table with columns for Master J.C. Whitley, Year of Appointment 91, Built at Port Glasgow, When built 1891, By whom built Blackwood & Gordon, Owners Ceylon Steamship Co Ltd, Managers, Residence 72 Bishopgate St. London E.C., and Port belonging to London.

Table with columns for LENGTH on Deck, BREADTH, DEPTH, Power of Engines, and No. of Decks with flat laid.

Dimensions of Ship per Register, Length 179.65 breadth 28.2 depth 12.4 Moulded depth, ft. 13 ins. 3 To Main Dk. Beam, Main Dk. 7 ins.

Main table with columns for FORGINGS AND CASTINGS, KEELSONS AND STRINGERS, FRAMING, and PLATING. Contains detailed specifications for various ship components like keels, stringers, frames, and plating.

Vertical text on the right side: * If Iron or Steel Deck, state if whole or part, and if wood deck so laid thereon.

BULKHEADS. No. in Vessel **5** No. Req'd. by Rule **4**

Thickness	Angles	Spacing	Height up	Sngl. or Dbl. Frames
4.6	Vertl. 3/4 x 3/4	30	Main deck	Double frame
20	Hrznl. 3/4 x 3/4	18		
	Vertl.			
	Hrznl.			

W. T. BULKHEADS

Number of Breasthooks **4 x deep floor**

Crutches **2 x deep floor**

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

The **FRAMES** extend in one length from **middle line** to **Main Cop & Hold Deck**

The **REVERSED ANGLE** on floors and frames extend from **middle line** to **upper bilge stringer and main deck stringer**

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

Garboard, double riveted to **Bar Keel or Flat Plate Keel**, with rivets **7/8** in. diameter, averaging **3 3/4** ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets **7/8** in. diameter, averaging **3 3/4** ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; treble for **half** length; with rivets **7/8** in. dia., averaging **3 3/4** ins. from cr. to cr.

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

Edges from Bilge to Main Sheerstrake, worked carvel, double or single riveted; with rivets **3/4** in. diameter, averaging **3 3/4** ins. from centre to centre.

Butts from Bilge to Main Sheerstrake, worked carvel, double or single riveted; treble for **half** length; with rivets **3/4** in. dia., averaging **2 7/8** ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for **half** length amidships. **Butts of Spar or Awning Sheerstrake**, treble riveted length amidships.

Butts of Main Stringer Plate, treble riveted for **half** length amidships. **Butts of Spar or Awning Stringer Plate**, treble riveted for length.

Butts of Inner Bottom Plating riveted for length. **Butts of Centre Girder** riveted.

Breadth of edge laps of Shell Plating in double riveting **5 1/2 x 4 1/2** Breadth of edge laps of Shell Plating in single riveting **2 1/2**

Butt Straps of Shell Plating, breadth and thickness **Butts, if Lapped**, breadth of laps

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double, 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. **Mild Steel: Tanaka Steel Co's; Parkhead; Mumford; & Steel & Steel Co's.**

Workmanship. Are the butts of plating planed or otherwise 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 facing 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**

MASTS, SPARS, &c.

Material	Total length	DIAMETER AND THICKNESS				No. of Plates in-board	AWEWS		RIVETING	
		At Partners	Heel	Hounds	Head		Number	Size	Seams	Butts
Fore	78.0	16"	12"	12"	6"					
Main	71.6	16"	14"	13"	6"					
Mizzen										

Boomsprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds **Galva steel wire 2 1/4" dia. No. 3** Stays **Galva steel wire 3"**

Sails **one** Suit of fore & aft Sails and the following spare sails **one jib & one top sail**

EQUIPMENT No. 10651. LETTER i. ANCHORS.

Number of Certificate	WEIGHT, EX STOCK	WEIGHT OF STOCK	TEST, PER CERTIFICATE	WEIGHT REQ'D BY RULE		Description of Anchor	Makers	Where and when tested and Superintendent
				Cwts. qrs. lbs.	Cwts. qrs. lbs.			
22487	12	1 21 3	1 7 14 6 1 0	12	0 0	Rodgers Pat	2nd Earl of Sandwich 31/1/91	
22488	12	1 21 3	2 3 21 14 6 1 0	12	0 0	do	do	
22490	11	0 0 2	3 7 12 17 2 0	10	1 0	do	do	
4th								
Collective weight	35	3 14			34	1 0		
Stream	4	0 7	1 0 7	6 10 0 0	11		Common	
22492	2	0 7	0 2 21 4	12 0 0	2			
2nd Kedge	1	0 0	1 0					

CHAIN CABLES.

Number of Certificate	Fathoms	Size	Test per Certificate Tons	Weight of Chain Cable	Fathoms & Size	Description	Makers of Cables	Where and when tested, and Superintendent	Material	FATHOMS & SIZE PER RULE	
										Fathoms	Size
9290	195	1 3/8	25 3/4	422-3-21	195 x 1 3/8	Standard	2nd Earl of Sandwich	31/1/91	TOWLINE*	75	8 1/2
							Webster & Co Ltd	Sept 10/91	HAWSER	90	6 1/2
										90	4 9/16

HAWSERS AND WARPS.

Boats **Life boat cutter, 2 dingies & steam launch**

Pumps, Number **as per app. attached** Diameter of Barrel and Tail Pipe **5"; 2 1/2"**

The Windlass is **Clark & Chapman's** Capstan **wood**

Engine Room Skylights—How constructed? **Lead, on iron casing 20" above shelter deck**

What arrangements for deadlights in bad weather? **Thick glass, with metal gratings, and tarpaulins**

Coal Bunker Openings—How constructed? **As per app. attached** How are lids secured? **Power screws** Height above deck? **Flush**

Number of Scuppers, and number and dimensions of Freeing Ports, &c. **Four ports each side; two in main deck**

Cargo Hatchways—How formed? **Plank iron Coamings 18" above deck** Hatches—If strong and efficient?

State size No. 1 Hatch (Forward) **5-4 x 6-0** No. 2 Hatch **16-4 x 11-0** No. 3 Hatch **9-2 x 7-6** No. 4 Hatch

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch **Web plate and fore and after in main hatchway**

Bulwarks, height above deck and description **Open guard rails and clancher on shell deck**

The above is a correct description.

Builder's Signature (here only) **Blackwood & Gordon** Surveyor's Signature **CR Burney**

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

Approved sketch of machinery section forwarded 27th Sept. 1891.

Order for Special Survey No. **1552**

Date **4th April 1891**

Order for Ordinary Survey No. **226** 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. **1891. April 21. 24. 29. May 1. 12th. 19.**

2nd. On the plating during the process of riveting. **26. 25. June 5. 8. 11. 15. 17. 23.**

3rd. When the beams were in and fastened, and before the decks were laid. **26. 25. 29. July 2. 21. 23. 27.**

4th. When the ship was complete, and before the plating was finally coated or omented. **29. 31. Aug. 4. 5. 7.**

5th. After the ship was launched and equipped. **11. 13. 15. 20. 27. Sept. 3. 7. 11. 14. 16. 17. 18. 22. 23.** Total No. of Visits **42**

State dates and initials of letters respecting this case **1091-26 4th Feb; 7th July; 28th July; 28th August. (W).**

General Remarks (State quality of workmanship, &c.) **The workmanship is good, and the vessel has been constructed in accordance with the approved plans (3 in number) which, together with the two Reports on the fittings are attached hereto. The scullings shown in blue on the approved tracing of midship section (attached hereto) have been fitted in accordance with owner's specification and show decrease in those scullings, originally approved. The butt straps for shell plating have not been increased above the Rule thickness, where the Rule thickness is equal to or above the shell plates, as increased and shown in blue.**

The foreboard, as per Sect's letter of the 20th August 1891, have been marked on the vessel's side, (as given below) and may now be recorded in the Register Book.

PARTICULARS FOR RECORD IN THE REGISTER BOOK.—Length of Poop **37** ft., R.Q.D. or Break **ft.**, Bridge Dk. **37** ft., F'castle **22** 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 **Poop, Bridge, and Forecastle, joined by a continuous Shelter Deck.**

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 DR & Shelter DR. 2 to 13**

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 and water capacity in tons

Fore peak tank, water capacity in tons **30** After peak tank, water capacity in tons **110**

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 **Portland Cement Paint** Outside **Paint**

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated **28th August 1891**

In Summer **1** ft. **7** ins. **Statutory at line**

In Winter **1** ft. **8 1/2** ins. **To top of Wood, Iron or Steel Upper, Spar, Awning, or Part Awning Deck.**

For Winter in North Atlantic **1** ft. **ins.**

Fresh Water above the centre of disc **3** ins.

The amount of Entry Fee **£ 3 : -** is received by me, **AMM...** Certificate to be sent to **Greenock Office**

Special... **£ 26 : 8** **26th Sept. 1891.**

Certificate* **£ gratis**

Travelling Expenses, if any **£ nil**

I am of opinion this Vessel should be Classed **+100A-1 Steel Shelter Deck**

CR Burney Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **TUES. 29 SEP 1891**

Character assigned **100A1 Steel**

ATCP **Shelter Deck**

+2ME subject to 1' 11" from **statutory dk. lined at main deck**

9.91 **10th & Shelter dk.**

7K.

It is submitted that this vessel appears eligible to be Classed **100A-1 Steel Shelter Deck** as recommended with freeboard of 1' 7" from the statutory deck line, as designed and marked on the vessel's side to be recorded in the Register Book & inserted on the Certificate of Classification. And further that the freeboard given in the Certificate of Classification **100A-1 Steel Shelter Deck** **E.K., F.P. & A.P. on above**

28/9/91