

Decks

STEEL STEAMER.

Received at London Office FR 15 SEP 1893

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

Date of completion of Report 14th Sept 1893. Port of West Hartlepool. No. 9196 Survey held at West Hartlepool Date, First Survey 27th March. Last Survey 8th Sept 1893. On the Steel Sea Steamer ARIADNE ALEXANDRA Rig Schooner 2 masts

Table with columns for Tonnage under Deck, 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, Less Crew Space, Less above Crown of Engine Room, Engine Room, Navigation Spaces, Register Tonnage as cut on Beam.

Table with columns for ONE OR TWO DECKED VESSEL, CLASS 100 A, Half Breadth (moulded), Depth from upper part of Keel to top of Main Deck Bms., Girth of Half Midship Frame (as per Rule), 1st Number, Length, 2nd Number, Proportions - Breadths to Length, Depths to Length - Main Deck to top of Keel, Destined Voyage 10 each Sea.

Table with columns for Master Hodgson, Year of appointment, Built at West Hartlepool, When built 1893, Launched 15th July 1893, By whom built W Gray & Co. Ld., Owners Ariadne Steamship Co. Ltd., Managers, Residence London, Port belonging to London, Surveyed while Building, Afloat, & in Dry Dock.

Summary table with columns: LENGTH on Deck as per Rule, BREADTH - Moulded, DEPTH - Top of Floors to Main Deck Beams, Power of Engines, Horse, No. of Decks with Flat laid, No. of Tiers of Beams.

Dimensions of Ship per Register, Length, 274.0 breadth, 38.25 depth, 17.7. Moulded Depth, ft. 20 ins. 3. Round of Beam 62 inches amid.

Main structural table with columns: FORGINGS AND CASTINGS, KEELSONS AND STRINGERS, FRAMING, PLATING. Rows include KEEL, STEEL, STERN-POST, MAIN PIECE of Rudder, RUDDER, FRAME, FLOORS, BEAMS, BRACKETS, CENTRE GIRDER, SIDE GIRDERS, MARGIN PLATE, INNER BOTTOM PLATING, BEAMS, POOP DECK, BRIDGE DECK, FORECASTLE DECK, PILLARS, WEB FRAMES, BRACKET PLATES.

9000 HPL371-0000

BULKHEADS.		No. in Vessel	No. Req'd. by Rule
Ceiling betwixt Decks, thickness and material	2 Pine		
" in hold	do. do. 2 1/2"		
Number of Breasthooks	3		
" Crutches	deep floors		

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

The FRAMES extend in one length from centre line bilge, thence to top keel, riveted through Plates with 3/8 in. Rivets, about 6 1/2 apart. The REVERSED ANGLE on floors and frames extend from Centre bilge, thence to main deck longitudinal. Main deck held beam all ^{the} all to fore and aft.

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

Garboard, double riveted to ~~Base Keel~~ Flat Plate Keel, with rivets 1 in. diameter, averaging 4 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked clencher, treble or double riveted; treble for 1/2 length, with rivets 1 in. dia., averaging 3 ins. from cr. to cr. overlapped for 1/2 length, treble riveted for 1/2 length; with rivets 3/4 in. dia., averaging 3 1/2 ins. from cr. to cr.

Butts of " " " overlapped for 1/2 length, treble riveted for 1/2 length; with rivets 3/4 in. dia., averaging 3 1/2 ins. from cr. to cr.

Edges from Bilge to Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from centre to centre.

Butts from Bilge to Sheerstrake, worked clencher, treble or double riveted; treble for 1/2 length, with rivets 1 in. dia., averaging 3 ins. from cr. to cr. overlapped for 1/2 length, treble riveted for 1/2 length; with rivets 3/4 in. dia., averaging 3 1/2 ins. from cr. to cr.

Edges of Sheerstrake, double or single riveted. Butts of Sheerstrake, treble riveted for 1/2 length amidships.

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Single or Double Butt Straps to Stringer Plate for 1/2 length.

Butts of Inner Bottom Plating double riveted for 1/2 length. Butts of Centre Girder treble riveted.

Breadth of edge laps of Shell Plating in double riveting 5 1/2". Breadth of edge laps of Shell Plating in single riveting 5 1/2".

Butt Straps of Shell Plating breadth and thickness 1 1/2" x 1 1/4" 19 to 20 to 30". Butts, if Lapped, breadth of laps 9".

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.? *James Martin Steel; Dorman Long & Co. Ltd. West of Scotland S & J Co. Iron Dorman Long & Co. Ltd. J. Hill & Co.*

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 facing surfaces? *Yes*

Do any rivets break into or through the seams or butts of the plating? *a few*

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	Head		Number	Size	Seams	Butts
Fore	70' 10"	19 1/2 x 3/8	16 1/2 x 7/16	13 1/2 x 1/2	2	✓	✓	Single	treble
Main	63' 0"	"	13 1/2 x 5/16	"	2	✓	✓	"	"

EQUIPMENT No. 22782 LETTER R

Number of Certificate	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.			
25195	39	3	0	-	-	-	35	11	3	14	37	2	0	Poljanci Patent	W.L. Rogers Lund 2/18/93 J. Barlow
25196	37	2	0	-	-	-	34	2	2	0	37	2	0	Stockless	" " " 26/4/93 "
25160	31	1	0	-	-	-	29	11	1	0	31	3	0	"	" " " 26/4/93 "
Collective weight	108	2	0	-	-	-	106	3	0	-	-	-	-	"	" " " 26/4/93 "
15725	9	2	7	2	1	21	11	13	1	21	9	2	0	Iron Stock	J. Green Supt. 21/7/93 CR Supt.
15724	4	3	1	1	0	14	7	5	0	4	3	0	"	"	" " " 21/7/93 "

CHAIN CABLES.

Number of Certificate	Fathoms	Size	Test per Certificate			Weight of Chain Cable			Fathoms & Size	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms	Size	Fathoms & Size
			Tons.	qrs.	lbs.	Tons.	qrs.	lbs.								
13919	120	3 1/4	17 1/4	55 1/2	11 1/2	186	1	21	240	1 1/4	J. Green	Supt. 21/7/93 CR Supt.	TOWLINE	See below	See opposite	
13920	119	3 1/4	17 1/4	55 1/2	11 1/2	188	2	16	"	"	"	"	"	"	"	
13921	118	3 1/4	17 1/4	55 1/2	11 1/2	188	2	16	"	"	"	"	"	"	"	
13922	117	3 1/4	17 1/4	55 1/2	11 1/2	188	2	16	"	"	"	"	"	"	"	

HAWSERS AND WARPS.

Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms & Size	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms	Size	Fathoms & Size
13919	120	3 1/4	17 1/4	55 1/2	11 1/2	186	1	21	240	1 1/4	J. Green	Supt. 21/7/93 CR Supt.

Boats *Two lifeboats and two others*

Pumps, Number *Hand pumps 5*

The Windlass is *Iron, Steam*

Engine Room Skylights.—How constructed? *Plate coaming and top with lead flaps, fitted with thick wood glass lights.*

Coal Bunker Openings.—How constructed? *Plate coaming. How are lids secured? cleat bottom*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *In well 2 Ports 27 x 19" + 2 Scuppers each side on main deck*

Cargo Hatchways.—How formed?—*Plate coaming*

State size No. 1 Hatch (Forward) *19.9 x 12.6* No. 2 Hatch *25.10 x 13.6* No. 3 Hatch *5.10 x 13.6* No. 4 Hatch *21.10 x 13.6*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *No. 1 5 1/2 in. 3 fore afters*

No. 2 dia. 4" fore and 2 in. 3 fore afters. No. 3 beam No. 4 2 in. 3 fore afters

Bulwarks, height above deck and description *7.3 strong bulwark with 3 web strakes. Main Rail, material and size—Stringer plate 20 x 76*

The above is a correct description.

Builder's Signature, (Name only) *Wm. Gray* Director.

Surveyor's Signature, *H. M. Williams* Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No. *156*

Date *28 July 1893*

Order for Ordinary Survey No. *1*

Date *1 Aug 1893*

No. *436* 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 completed, 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 *Feb 27 93 M June 13 93 E. Sept 5 93 M. Sept 8 93 M.*

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

Built under Special Survey in accordance with the approved plan and the rules for steel vessels. The workmanship and materials are good. Steel tested under mill.

Frames in Engine Room 6 x 3 x 2 1/2 built angles. Top angle on Centre Keelson 4 x 4 x 7/16 Bottom ditto 5 1/2 x 4 x 7/16 under Boiler. Interstitial plate 7/16" angle on same 3 x 3 x 7/16 Main Plate 1/8" Middle line plate of tank top 7/16" in Boiler room 5/8" in Engine room.

The decks and shaft tunnel tested by means of a hose. Also the hand pumps tested.

SAM

PARTICULARS FOR RECORD IN THE REGISTER BOOK.—Length of Poop *29.0* ft., R.Q.D. or Break *76.0* ft., Bridge Dk. *111.0* ft., F'castle *31.0* 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 sunk in main deck. Poop main deck & bridge joined.

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 deck (iron) 15 timber spars*

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 _____

Double bottom, constructed on the cellular system, length *228.0* and water capacity in tons *408.5*

Fore peak tank, water capacity in tons _____ After peak tank, water capacity in tons *18.5*

Midship deep tank, length _____ and water capacity in tons _____

Other tanks, if fitted, length _____ and water capacity in tons _____

The above have *all* been tested as required by the Rules.

(If necessary, furnish further information by sketch.)

How are the surfaces preserved from oxidation? Inside *Dunlop's Cement*, Paint above Outside *Paint*

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated _____

In Summer *✓* ins. _____

In Winter *✓* ft. _____

For Winter in North Atlantic *✓* ft. _____

Fresh Water above the centre of disc *✓* ins. _____

State if marked on Vessel's sides in accordance with Notice No. 672 *✓*

The amount of Entry Fee, £ *4* is received by me, *H. M. Williams*

Special ... £ *72: 16: 6* *14.9.18.92*

Certificate ... £ *Nil*

Travelling Expenses, if any £ _____

Opinion this Vessel should be Classed *+100 A1 Steel* *H. M. Williams* Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *TUES. 19 SEP 1893*

Character assigned *£100 A1 (Steel) well de*

1 DR (Iron) fuel frame

F. K. Cem.

L. A. & P. + L. M. C. P. 93

2, steam chain

100 A1 (Steel)

1 DR (Iron) fuel frame

D. B. = see DR 92 (particulars above)

F. K. Cem.

Lloyd's Register