

3 Decks.

## IRON OR STEEL STEAMER.

THUR. MAR 19 1896

No.

33039

State if Report is also sent on the Machinery of the Vessel. *Yes*

Date of completion of report *17 March 1896* Port of *Newcastle* Received at London Office

Survey held at *Newcastle* Date, First Survey *16 August 1895* Last Survey *13 March 1896*

On the *Screw Steamer "Marilla"* Rig *Schooner*

TONNAGE under Tonnage Deck... *2834.90* THREE DECKED VESSEL.

Do. between Tonnage Dk. (and 3rd and 4th Dk.)

Total under Upper Dk.

Do. of Poop

Do. of Bridge House

Do. of Forecastle *48.27*

Do. of Houses on Dk. *60.90*

Do. of excess of Hatchways *13.28*

Do. above Crown of Engine Room *55.49*

Gross Tonnage *3013.34*

L. Crew Space *72.13*

L. above Crown of Engine Room *2941.21*

Net Tonnage FOR FEES *2941.21*

Less Engine Room *964.27*

Navigation Spaces *41.29*

Register Tonnage as cut on Beam *1935.65*

CLASS *100 A.I. with fbd.*

Half Breadth (moulded) *22.87*

Depth from upper part of Keel to top of Upper Deck Beams *27.00*

Girth of Half Midship Frame (as per Rule) *46.66*

deduct 7 feet *7.00*

1st Number *89.53*

Length *318.21*

2nd Number *28489*

Proportions—Breadth to Length *6.95*

Depth to Length—Upper Deck to top of Keel *11.78*

Main Deck ditto *16.28*

Destined Voyage *Amsterdam to London*

Master *Mr. B. Crighton*

Year of appointment *1896*

Built at *Newcastle*

When built *1895* Launched *13 Feb 1896*

By whom built *Sir W. G. Armstrong & Co.*

Owners *La Societe Anonyme Belge de Navigation a Vapeur*

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

Residence

Port belonging to *Antwerp*

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH top of Floor to Upper Deck Beams	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
	318	2		46	9		23	7	290		one	two
Dimensions of Ship per Register. Length <i>320.0</i> breadth <i>46.0</i> depth <i>23.45</i> Moulded depth, ft. <i>26</i> ins. <i>2</i> To Upper Dk. Beam, Upper Dk. <i>11</i> ins.												
FRAMING.						FORGINGS OR CASTINGS.						
FRAME, Angles, or Bars for length amidships						KEEL, Bar or Side Plates, depth and thickness						
Do. for at each end						STEM, moulding and thickness						
Do. in way of Double Bottoms at Solid Floors						STERN-POST for Rudder do. do.						
" " at intermdt. Bkts.						" " for Propeller						
Distance of Frames from moulding edge to moulding edge, all fore and aft						MAIN PIECE of Rudder, diameter at head						
REVERSED FRAME, Angles						" " do. at heel						
DEEP FRAMING, depth of girder						RUDDER, how constructed <i>Cast Steel with single plate</i>						
FLOORS, depth and thickness of Floor Plate at mid-line for length amidships						Can the Rudder be unshipped afloat? <i>Yes</i>						
" in way of Engines and Boilers						KEELSONS & STRINGERS.						
" thickness at the ends of vessel												
" depth at the half breadth, as per Rule						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate						
" height extended at the Bilges						" Rider Plate						
FLOORS & BRACKETS in Cell Dble Bottoms						" Bulb Plate to Intercoastal Keelson						
" Distance apart						" Horizontal Plates on Floors						
CENTRE GIRDER, in Double bottom, depth and thickness						" Angles						
" Angles, Top						SIDE KEELSON, Angles						
" " Bottom						" Bulb or Plate above floors, for length						
SIDE GIRDERS, number and thickness						" Intercoastal Plate, for length						
" Angles <i>Plating not</i>						" Attached to outside Plating with Angle						
MARGIN PLATE, depth (exclusive of flange) and thickness						BILGE KEELSON, Angles						
" Angles						" Bulb or Plate above floors, for length						
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake						" Intercoastal Plate for length						
" " in Engine and Boiler space						" Attached to outside Plating with Angle						
" " Remainder in Holds						BILGE STRINGER Angles						
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						" Bulb Plate for length						
" Angles on upper edge						" Intercoastal Plate for length						
" Average space						" Attached to outside Plating with Angle						
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						SIDE STRINGER Angles						
" Angles on upper edge						" Bulb or Intercoastal Plate, for length						
" Average space						" Attached to outside plating with Angle						
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						Upper Deck Stringer Plates, br'dth & thickness						
" Angles on upper edge						" Angle on ditto						
" Average space						" Tie Plates fore and aft, outside Hatchways						
BEAMS, Hold, or Orlop, Plate or Tee Bulb						" Deck. * Iron or Steel, for length						
" Angles on upper edge						" Wood Deck. Material & thickness						
" Average space						Middle Deck Stringer Plate, br'dth & thickness						
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb						" Angles on ditto, No.						
" Angles on upper edge						" Tie Plates outside Hatchways						
" Average space						" Diagonal Tie Plates on Bms., No. of prs.						
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb						" Deck. * Iron or Steel, for length						
" Angles on upper edge						" Wood Deck. Material & thickness						
" Average space						Lower Deck Stringer Plate, br'dth & thickness						
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb						" Angles on ditto, No.						
" Angles on upper edge						" Tie Plates, outside Hatchways						
" Average space						" Deck. * Material and thickness						
PILLARS, In 'tween Deck, size and spacing						Hold, or Orlop Stringer Plate, br'dth & thckn's						
" " Hold						" Angles on ditto, No.						
" " Quarter 'tween Dks., " "						" Tie Plates outside Hatchways						
" " in Hold						" Deck. Material and thickness						
WEB-FRAMES, In Fore Body, No. and spacing						Poop Deck Stringer Plate, breadth & thickness						
" " br'dth. & thickness						" Angle on ditto						
" No. of Side Stringers						" Tie Plates						
WEB-FRAMES, In E. & B. Space, No. & spacing						" Deck. Material and thickness						
" " br'dth. & thickness						Bridge Deck Stringer Plate, br'dth & thickness						
" No. of Side Stringers						" Angle on ditto						
WEB-FRAMES, In After Body, No. and spacing						" Tie Plates						
" " br'dth. & thickness						" Deck. Material and thickness						
" No. of Side Stringers						Forecastle Deck Stringer Plate, b'dth & th'kns						
" Size of Angles or Tee Bars to Web-Frames						" Angle on ditto						
BRACKET PLATES to Stringers between Web Frames, depth and thickness						" Tie Plates						
						" Deck. Material and thickness						
						* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.						
						STIFFENERS.						
						BULKHEADS.						
						W. T. BULKHEADS						
						PARTITION						
						LONGITUDINAL						
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.		Thickness.	Breadth.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAPS.	IF LAPPED.	Breadth.	Thickness.	Breadth.	For what Length.	Feet.	Inches.
	Breadth.	Thickness.	Breadth.	Thickness.															
FLAT PLATE KEEL.....	36	12	12	12	36	12	double	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
GARBOARD OR A STRAKE.....	58	12	11	11	36	12	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
B ".....	56	11	9	9	48	12	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
C ".....	58	10	9	9	54	10	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
D ".....	56	13	10	10	48	13	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
E ".....	53	12	10	10	54	12	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
F ".....	41	13	10	10	48	13	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
G ".....	52	11	9	9	54	11	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
H ".....	46	12	9	9	48	12	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
J ".....	54	11	9	9	54	11	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
K ".....	46	12	9	9	48	12	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
L ".....	53	13	9	9	54	13	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
M ".....	44	15	10	10	44	15	"	12	1 1/2	treble	1 1/2	19	20	11 1/4	12	12	12	12	12
N ".....	B & C Strakes full thickness under Boilers																		
O ".....	Boiler and after hood plates as per rule																		
P ".....																			
Q ".....																			
R ".....																			
DOUBLING OF FLAT PLATE KEEL.....	24	12	12	12	24	12	single	12	1 1/2	treble	1 1/2	19	16	11 1/4	12	12	12	12	12
Length of Bilge.....	13 about 18 ft in length at ends of bridge																		
Thickness of Sheerstrakes.....	increased 2/20 for 1/2 length																		
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. *Beane angled by Norman Sons & Co. & Palmers & Co., Beane & Plating, Palmers & Co., Consett Iron Co., and John Spencer & Sons Ltd*

Upper Deck (Butts, treble riveted for 1/2 length amidship. Stringer Plate (Straps, single, double or overlapped for whole length amidship. Middle Deck (Butts, treble riveted for 1/2 length amidship. Stringer Plate (Straps, single, double or overlapped for whole length amidship. Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *through* Inner Bottom Plating, riveting of Edges, double *single* Butts, double *single* Centre Girder Butts, *treble* riveted Keelson Butts, riveted. Frames, riveted through Plates with 1/8 in. Rivets, about 6 apart. Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from flange plates to gunwale. REVERSED FRAMES on floors and frames extend from Centre line to main & upper deck alternately; all to upper deck about after Peak bulkhead & to forecastle deck alternately.

MASTS, SPARS, &c.															RIVETING.			
	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		Seams.	Butts.							
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.									
LOWER MASTS.....	Fore .....	Steel 56.6	19 1/2 x 7/16	19 1/2 x 7/16	✓	18 1/2 x 5/8	2	✓	-	Single	✓	treble						
	Main .....	do 67.9	19 1/2 x 7/16	18 1/2 x 5/8	✓	18 1/2 x 5/8	2	✓	-	do		do						
	Mizen .....																	
Bowsprit	✓																	
Topmasts, <del>Masts</del> and Remainder of Spars	O Pine																	
Rigging, Material and Size, Shrouds:	galvanized iron wire 2 3/4"												Stays	4 1/4				
Sails.	one	Suit of											Sails, and the following spare sails	nil				

EQUIPMENT No. 2204 LETTER U										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.		Feet.	Inches.	Feet.	Inches.	Feet.	Inches.
		Cwts.	qrs.	lbs.	qrs.	lbs.	qrs.	lbs.	qrs.										
14083	1st Bower	47	0	0	47	0	0	45	2	✓	✓	✓	✓	26	6	9	4	✓	✓
1440	2nd "	43	2	0	43	2	0	45	2	✓	✓	✓	✓	14	8	9	4	✓	✓
14522	3rd "	40	0	0	40	0	0	39	2	✓	✓	✓	✓	25	9	9	5	✓	✓
14755	Stream	11	1	0	11	1	0	11	1	✓	✓	✓	✓	4	3	9	6	✓	✓
14770	Kedge	5	3	0	5	3	0	5	3	✓	✓	✓	✓	4	3	9	6	✓	✓
2nd Kedge	Certificates signed C. E. Perrins																		

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms.	Size.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Twisting.	Fathoms and Size per Rule.	Feet.	Inches.	Feet.	Inches.
				Supplied.	Per Rule.														
7108	135	1 1/2	6 1/2	255.3	511.14	270	1 1/2	✓	✓	✓	✓	100	4	33	100	4	✓	✓	✓
7102	135	1 1/2	6 1/2	255.3	511.14	270	1 1/2	✓	✓	✓	✓	120	3 1/2	26	90	10	✓	✓	✓
Iron Stream Chain (or Steel Wire ...)	120	4 1/4	35	Certificates signed C. E. Perrins															

Boats 2 Life boats & 2 others. Pumps, Number 6. Windlass is Clarke, Chapman's Pat. Engine Room Skylights—How constructed? of iron on iron casing 2 ft above the Bridge deck. What arrangements for deadlights in bad weather? Iron shutters with thick circular glass. Coal Bunker Openings—How constructed? Plate hatchways. How are lids secured? Solid hatches. Height above deck? 9". Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 7 Scuppers & 7 Ports each side, latter 2' 6" x 1' 9". Ceiling in Holds, thickness and material 3 Pine. Ceiling 'tween Decks, thickness and material 2" pine. Cargo Hatchways—How formed? Plate coverings & headboards. Hatches, If strong and efficient? 3 Solid. State size No. 1 Hatch (Forward) 20' 0" x 14' 0". No. 2 Hatch 2' 11" x 16' 0". No. 3 Hatch 23' 10" x 14' 0". No. 4 Hatch 39' 11" x 14' 0". Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. Deep webs & 3 fore & afters as per rule. No. of Breasthooks 6. No. of Crutches 3 & 4 transoms. Bulwarks, height above deck and description Iron 3' 4" x 1/4". Main Rail, material and size bulb angle 6' 3" x 5/16". The above is a correct description of. Surveyor's Signature James Sibson. Builder's Signature (here only) Sir W. G. ARMSTRONG & Co. LIMITED. DIRECTOR.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *Mr. 31 July 1895, Mr. 21 August, Mr. 5 Sept., and 2. 6 Sept. 1895*

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 faying surfaces? *Yes*

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

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

General Remarks (State quality of workmanship, &c.) *This vessel has been built of Steel, and in accordance with the rules, and approved tracings of Midships Section & Profile; on the cellular bottom system, and with web frames in lieu of Hold beams. The inner bottom tested to a head of water to the height of the load line & proved satisfactory. The Deck & Shaft Tunnel tested with water, deck pumps tested and together with the man-hole doors are now in good working condition. The materials and workmanship throughout being of a good description*

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 54 ft., Forecastle 37 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

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 (Steel) 2 tr. Beams, and web frames with galboard.*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Portland cement & paint* Outside *3 coats of paint*

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

PARTICULARS FOR RECORD IN THE REGISTER BOOK.—Length of Poop 27 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 34 ft., R'castle 37 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

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) Decks (Steel) 2 tr. beams, and web frames with green board. ✓  
Official No. \_\_\_\_\_; Signal Letters \_\_\_\_\_  
How are the surfaces preserved from oxidation? Inside Portland cement & paint Outside 3 Coats of paint

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

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>94</u> ✓	<u>22.6</u>	Fore peak tank, <u>filled with water to test bulkhead</u>	<u>10</u> ✓	<u>4.5</u>
Double bottom, forward,	<u>132</u> ✓	<u>33.8</u>	After peak tank,	✓	✓
Double bottom, under Engines and Boilers,			Midship deep tank,	✓	✓
Double bottom, if under Engines only,	<u>20</u> ✓	<u>4.5</u>	Other tanks, if fitted,	✓	✓
Double bottom, if under Boilers only,		<u>100</u>	(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. 2100. Date 16. 11. 95. 1st. On the several parts of the frame, when in place, and before the plating was wrought. 23. 28. 1895. 2nd. On the plating during the process of riveting. 23. 28. 1895. 3rd. When the beams were in and fastened, and before the decks were laid. 23. 24. 28. 30. 31. 4th. When the ship was complete, and before the plating was finally coated or cemented. 23. 24. 28. 30. 31. 5th. After the ship was launched and equipped. Total No. of Visits 4.

The amount of Entry Fee.....£ 5 : : Fees applied for, 18. 3. 1896. Special Survey Fee ....£ 98 : 10 : 6 Received by me, 25. 3. 1896. Travelling Expenses, if any £ : : Certificate to be sent to NEWCASTLE-ON-TYNE

I am of opinion this Vessel should be Classed 100A.1. 3 deck rule, Deck laid ✓ With, or without Freeboard, as condition of Class. *With freeboard*