

IRON SHIP.

No. 12956 Survey held at Newcastle Date, First Survey May 28th Last Survey August 19th 1875

On the S.S. "Tomas Brooks"

Master Ramon del Vallejo

TONNAGE under Tonnage Deck	275.26	ONE, OR TWO DECKED, THREE DECKED VESSEL.
Ditto of Third, Spar, or Lumber Deck	25.79	SPAR, OR LUMBER DECKED VESSEL.
Ditto of Propeller	40.31	HALF BREADTH (moulded) 12.0
Ditto of Houses on Deck	8.89	DEPTH from upper part of Keel to top of Upper Deck Beams 11.2
Ditto of Forecastle	43.69	GIRTH of Half Midship Frame (as per Rule) 20.75
Gross Tonnage	393.94	1st NUMBER 43.95
Less Crew Spaces		1st NUMBER, if a THREE-DECKED VESSEL
Less Engine Room	82.37	[deduct 7 feet
Register Tonnage as cut on Beam	311.57	LENGTH 159
		2nd NUMBER 6988
		PROPORTIONS—Breadths to Length 6.6
		Depths to Length—Upper Deck to Keel 14.19
		Main Deck ditto

Built at Newcastle
 When built 1875 Launched 28th July 75
 By whom built Palmers S. & Co. Ltd
 Owners B. Eslinger & Co.
 Port belonging to Santiago del Chile
 Destined Voyage Cuba
 Surveyed while Building, Afloat, in Dry Dock.

LENGTH on deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH top of Floors to Upper Deck Beams	Feet.	Inches.	Power of Engines	Horse.	Nº. of Decks with flat laid	Nº. of Tiers of Beams
159	0		24	0		10	2				one & shade deck	one

Dimensions of Ship per Register, length, <u>161.3</u> breadth, <u>23.5</u> depth, <u>9.4</u>	
KEEL, depth and thickness	Inches in Ship. 6 x 1 7/8
STEM, moulding and thickness	6 x 1 3/4
STERN-POST for Rudder do. do.	6 x 3 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	21 in
FRAMES, Angle Iron, for 1/2 length amidships	Inches in Ship. 3 2 3 5
Do. for 1/2 at each end	3 2 3 5
REVERSED FRAMES, Angle Iron	2 2 2 4
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	12 6
thickness at the ends of vessel	6
depth at 1/2 the half-bdth. as per Rule	7
height extended at the Bilges	Twice midship depth
BEAMS, Upper, Spar, or Lumber Deck	3 2 3 6
Single or double Ang. Iron, Plate or Tee Bulb Iron	
Single or double Ang. Iron on Upper Edge	
Average space	
BEAMS, Main, or Middle Deck	6 3 4
Single or double Ang. Iron, Plate or Tee Bulb Iron	
Single or double Ang. Iron on Upper Edge	
Average space	Alternate frame
BEAMS, Lower Deck, Hold or Cabin	
Single or double Ang. Iron, Plate or Tee Bulb Iron	
Single or double Ang. Iron on Upper Edge	
Average space	
KEELSONS Centre line, single or double plate	5
Intercoastal, Plates	
Bulb Plate to Intercoastal Keelson	5 1/2 5
Angle Irons	3 3 6
Double Angle Iron Side Keelson	
Attached to outside plating with angle iron	
BILGE Angle Irons	3 3 6
do. Bulb Iron	5 1/2 5
BILGE STRINGER Angle Irons	3 3 6
Intercoastal plates attached to plating	
SIDE STRINGER Angle Irons	3 3 6
Bulb Iron	5 1/2 5
Transoms, material. Knight-heads. Hawse Timbers.	Gun
Windlass	Walker Patent Pall Bitt C. Gun

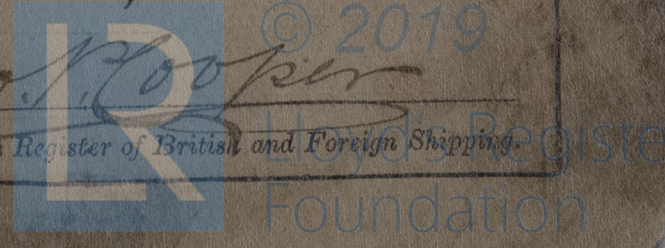
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	30 8
of doubling at Bilge, or increased thickness, and length applied	6 x 7
fm up. part of Bilge to lr. edge of Sh'rstrake	6 x 7
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied	30 8
from Main to Upper or Spar Deck Sheerstrake	6 ft 3/4 length
Upper Spar Deck Sheerstrake, breadth & thickness	
Butt Straps to outside plating, breadth & thickness	10 1/2 6 1/2 9
Lengths of Plating	6 frame spaces
Shifts of Plating, and Stringers	2 frame spaces
Garboard Plate on outside of main Sheerstrake	
Upper Deck Beams, breadth and thickness	
Angle Irons on ditto	
Diagonal Tie Plates on Deck, No. & Distance	
Plating material and scantling	
Waterway	
Flat of Upper Deck	
How fastened to Beams	
Stringer Plate on ends of Main & Middle Deck	34 8
Beams, breadth and thickness	
Is the Stringer Plate attached to the outside plating?	Yes
Angle Irons on ditto, No.	3 x 3 x 6
Tie Plates, outside Hatchways	7 6
Diagonal Tie Plates on Deck, No. & Distance	
Waterway material and scantling	
Flat of Middle Deck do. do.	Y. Pine 3 in
How fastened to Beams	nut & screw bolts
Stringer Plates on ends of Lower Deck, Hold or Cabin	
Is the Stringer Plate attached to the outside plating?	
Angle Irons on ditto, No.	
Stringer Tie Plates outside Hatchways	
Flat of Lower Deck	
Ceiling betwixt Decks, thickness and material	B. Pine 2 in
in hold do. do.	do do 2 in
Main piece of Rudder, diameter at head	4
do. at heel	3 1/4
Can the Rudder be unshipped afloat?	Yes
Bulkheads No. 4 Thickness of	3/16
Height up	Main deck
How secured to sides of ship	double frame
Size of Vertical Angle Irons	2 1/2 x 2 1/2 x 4 and distance apart 30 ins.
Are the outside Plates doubled two spaces of Frames in length?	Yes

Per Approved tracing of mid section

The FRAMES extend in one length from Keel to gunwale Riveted through plates with 30 in. Rivets, about 5 apart.
 The REVERSED ANGLE IRONS on floors and frames extend across middle line to bilges
 KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes
 PLATING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 5 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 5 ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 ins. from centre to centre.
 Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.
 Edges of Main Sheerstrake, double or single riveted.
 Butts of Main Sheerstrake, double riveted for whole length amidships.
 Butts of Main Stringer Plate, double riveted for whole length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for whole length.
 Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 1/2
 Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted?
 Waterway, how secured to Beams Bolts (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? Solid Milded Knives No. of Breasthooks, 3 Crutches, 3
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Ordinary ship iron
 Manufacturer's name or trade mark, Palmers S & Co. (Lini)

The above is a correct description.
 Builder's Signature, John P. Palmer Surveyor's Signature, Geo. Cooper
 Surveyor to Lloyd's Register of British and Foreign Shipping

IRON 463-0067



Workmanship. Are the butts of plating planed or otherwise fitted? planed

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Yes

Are the fillings between the ribs 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 the plating? few

Masts, Bowsprit, Yards, &c., are new & in good condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveing, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts ~~and Bowsprit~~

Foremast $75\frac{1}{2} \times 15$ " Pitch Pine
Main. 71×15 "

mai. 41 x 15

[illegible]

Standing and Running Rigging 9 new rope sufficient in size and low in quality. She has one Long Boat and two others

The Windlass is hnd Capstan - and Rudder hnd Pumps sufficient

Engine Room Skylights.--How constructed? *Sun framing, iron top* How secured in ordinary weather? *screw bolts*

What arrangements for deadlights in bad weather? Shutters & bullseyes

Coal Bunker Openings.—How constructed? *Cast iron rim & frame* How are lids secured? *Clinch screws* Height above deck? *Flush*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Pots & Scuppers

Cargo Hatchways.—How formed? Iron plates

State size Main Hatch 7' x 8' Forehatch 1 Quarterhatch 5' 6" x 8'

If of extraordinary size, state how framed and secured? Ordinary

What arrangement for shifting beams? Two fire & after

Hatches, If strong and efficient? Yes

Order for Special Survey No. <u>10023</u>	DAYS 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 } <u>April under Special Survey</u>
Date <u>20 May 1890</u>		2nd. On the plating during the process of riveting } <u>10 & 15 May 20. 29. June 3. 9. 12. 18. 23. 25.</u>
Order for Ordinary Survey No. <u>—</u>		3rd. When the beams were in and fastened, and before the decks were laid... } <u>26. July 8. 14. 17. 22. 28. Aug 4. 6. 9. 11. 14. 16.</u>
Date <u>—</u>		4th. When the ship was complete, and before the plating was finally coated or cemented.. } <u>19.</u>
No. <u>223</u> in builder's yard.		5th. After the ship was launched and equipped

Order for Ordinary Survey No. —	DATES of Survey held while building was per Section	3rd. When the beams were in and fastened, and before the decks were laid....	26. July 8. 14. 17. 22. 28. Aug 4. 6. 9. 10. 14. 16.
Date —		4th. When the ship was complete, and before the plating was finally coated or cemented..	19.
No. 223 in builder's yard.		5th. After the ship was launched and equipped	

No. 323 in builder's yard. DA hel as 5th. After the ship was launched and equipped

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

This is a passenger vessel built in accordance with the approved midship section. She is fitted with a shade deck supported by Keel stranchins, shipped into cast metal sockets bolted to the waterway. The Angle iron beams for this deck are of A.S. $3\frac{1}{2} \times 3 \times \frac{9}{16}$ about 3' 6" apart with $2\frac{1}{2}$ " S.P. Pine deck laid thereon. The sides of this shade deck erection are open from aft to within 36' 6" of stem from which ~~it is~~ iron plating to the stem with $\frac{9}{16}$ plates.

The material & workmanship are alike satisfactory.

State if one, two, or ~~three~~, decked vessel, or if spar, or awning decked; and the lengths of poop, forecastle, or raised quarter deck, and the length of double, or part double bottom.

How are the surfaces preserved from oxidation? Inside Cement & Paint Outside Paint & Compas

I am of opinion this Vessel should be Classed 700 A1 one deck & shade deck
The amount of the Entry Fee \$ 500 with man. load draft of 8 feet.

The amount of the Entry Fee ... £ 4 : .. is received by me, *F. Young* with Max. load draft of 8 tons
Special *paid* £ 9 : - 4 : - *25 Aug 1875*
Certificate * * * * * *Geo. Cooper*

(Travelling Expenses, if any, £ 2.2.0)


Committee's Minute 27th August 1876

Character assigned

one x Shade Dk
brown line of feet

Boardman Office

It is submitted this vessel
has been built in accordance
with improved machinery & is
superior - and appears eligible
to be appraised 100 A. 1. and
recommended.


 Lloyd's Register
 Foundation