

IRON SHIPS.

No. 17123 Survey held at Liverpool

Date March 14th 1861

on the B^{re} "San Lorenzo"

Master Pentath

Tonnage Gross 487⁵⁵ Engine 100

Register

Built at Liverpool

When Built 1861 By whom built Jones & Co

Owners Gardener & Bloomfield

Port belonging to Liverpool

Destined Voyage Valparaiso

If Surveyed Afloat or in Dry Dock While Building under Special Survey

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck	Feet.	Inches.	Power of Engines	Horse No.
150	3		26	6		11	9			
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship.	Inches required per Rule.				Stem, \bar{K} bar iron, moulding and thickness	Inches in Ship.	16ths required per Rule.	Inches in Ship.	16ths required per Rule.
	18	18				" if plate iron, breadth and thickness	6 1/2	2 1/2	6 1/2	2 1/2
Floors, Size of Angle Iron, and No. <u>one</u> at bottom of Floor Plate	Inches in Ship.	Inches required per Rule.	16ths required per Rule.			Stern-post, \bar{K} bar iron, moulding and thickness	6 1/2	2 1/2	6 1/2	2 1/2
" depth and thickness of Floor Plate at mid line	18	8	18	8		" " if plate iron, breadth and thickness				
" depth and thickness of Floor Plate at Bilge Keelson	4 1/2	8	3 1/2	8		Keel, \bar{K} bar iron, depth and thickness	6 1/2	2 1/2	6 1/2	2 1/2
" Size of Reversed Angle Iron, and No. <u>one</u> at top of Floor Plate	2 1/2	2 1/2	6	2 1/2	2 1/2	" if plate iron, breadth and thickness	6 1/2	2 1/2	6 1/2	2 1/2
Frames, Size of Angle Iron, single or double	3 1/2	3	8	3 1/2	2 1/2	Garboard Plates, thickness..	5 1/2	10	10	
" " Reversed Iron, \bar{N} to every frame	2 1/2	2 1/2	6	2 1/2	2 1/2	From Garboard to upper part of Bilge	Best	9	9	
Beams, Deck (N ^o . <u>42</u>) double Angle Iron	3 1/2	3	8	3 1/2	2 1/2	From upper part of Bilge to Sheerstrakes	Staffordshire	8	8	
" Bulb Iron with double Angle Iron on top	2 1/2	2 1/2	5	2 1/2	2	Sheerstrakes		9	9	
" " depth & thickness of plate amidships	6 1/2	8	6 1/2	6		Breadth & thickness of Butt Straps to outside plating	Breadth 7 1/2" thickness 10 1/2"			
" " double or single Angle Iron, on lower edge	3 feet	3 1/2				Planksheers				
" " average space between	3 feet	3 1/2				Gunwale Plate or Stringer on ends of Up. Dk Beams	Iron two thicknesses 4 1/2 x 8	19 1/2	8	
" " if wood (N ^o . <u>42</u>) sided & moulded	2 1/2	2 1/2	5	2 1/2	2	Angle Iron on ditto	4 x 5 x 6			
" Hold, or Lower Deck (N ^o . <u>42</u>) double Angle Iron or Bulb Iron with double Angle Iron on top	6 1/2	8	6 1/2	6		Waterway	4 Pine	4	3	
" " depth & thickness of plate amidships	3 feet	3 1/2				Deck	8 Pine	2 1/2		
" " double or single Angle Iron, on lower edge	2 1/2	2 1/2	5	2 1/2	2	Ceiling in Hold	Red Pine	3		
" " average space between	3 feet	3 1/2				Ceiling betwixt Decks				
" " if wood (N ^o . <u>42</u>) sided & moulded						Beam Clamps				
" Paddle, wood, sided and moulded or if Iron, size of Plate						" Shelf				
Engine						" Stringer Plates on ends of Hold or Lower Dk Beams	Iron	18	8	19 1/2
Keelson, wood, sided & moulded, iron, size of plate, \bar{K} Box, give sketch & dimensions	2 plates 12 x 6	12	8			Ceiling between Decks		2		
" Side or Bilge	10 x 8	8				Stringer or Tie Plates outside Hatchways	Iron	10	8	10
" Number	4 x 3 x 3/4	3 1/2				Deck Beam Clamps				
						" Shelf				
						Stringers in Hold				
						Deck, Lower	at sides	4		
						Deck, Upper, how fastened to Beams	Butt & screw bolts			

Transoms, material Iron or, if none, in what manner compensated for.

Knight-heads " " are they free from defects? Bulkheads, N^o. Two Thickness of 3/8

Hawse Timbers " " " how secured to the sides of the ship between frames

" " " size of vertical angle iron and their distance apart 2 1/2 x 2 1/2 x 3/4 - 2 ft. apart

The Frames or Ribs extend in one length from Keel to gunwale rivetted through plates with (3/4 in.) rivets, about (5 in.) apart.

The reverse angle irons on the floors extend in one length across the middle line from bilge to bilge

" " " on the frames " " " from centre to gunwales

Keelson, how are the various lengths of plates or angle irons connected? By butt straps &c

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (7/8 ins.) diameter averaging (3 in.) from centre to centre of rivet.

" Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.

" Butts from Keel to turn of bilge, worked carvel with a lining piece (9/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? alternate tiers

" Edges from bilge to planksheer, worked carvel with a lining piece (1 in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? alternate tiers

" Butts from bilge to planksheers, worked carvel with a lining piece (3/4 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/4 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (4) Breadth of laps in single rivetting (2)

Planksheer, how secured to the plating of the sides { Explain by sketch, }

Waterway " " planksheer and to the Beams { if necessary. }

Side trussing see breadth and thickness of plates straps how secured? By Angle Irons &c

Deck trussing " " " " Rivelled to beams

Deck Beams, how secured to the side? By stringer plates & knees on beams

Hold or Lower Deck " " " " " "

Paddle " " " " " "

No. of breasthooks " " crutches " " how are pointers compensated? plates rivetted between frames

What description of iron is used for the angle iron and plate iron in the vessel? Best Staffordshire

Builder's Signature Jones & Co

IRON435-0174

2556 Lm

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? yes

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

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? solid pieces

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? yes and are the rivet holes well and sufficiently countersunk in the outer plate? yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? very few

Her Masts, Yards, &c., are in good condition, and sufficient in size and length.
She has **SAILS.**

CABLES, &c.

ANCHORS, and their weights.

N ^o .			Fathoms.	Inches.		N ^o .	Weight.
2	Fore Sails,	Chain	300	1 1/2	Bower,	3	19.3.3
2	Fore Top Sails,	90 fms of fine stream	90	1	Stream,	1	19.2.3
2	Fore Topmast Stay Sails,	Hawser	90	8			
2	Main Sails,	Towlines	90	6 1/2	Kedge,	2	5.0.15
2	Main Top Sails,	Warp					3.0.4
	and in all two suits	All of <u>good</u> quality.					

Her Standing and Running Rigging is sufficient in size and best in quality.

She has one Long Boat and three others

The present state of the Windlass is good Capstan good and Rudder good Pumps good

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

DATES of Surveys held while building, as per Section 17.

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the progress of rivetting

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

5th. After the ship was launched

frequently while building under special survey

This vessel is built of best materials & workmanship the stringer plates & trussing are extremely large and those on upper deck have extra breadth of butt straps and six complete rows of rivets she has diagonal stanchions fitted between upper deck beams & the helms and is in all respects a substantial vessel

In what manner are the surfaces preserved from oxidation? Red Lead

we are of opinion this Vessel should be classed 12 Years & 1

The amount of the Fee£ 5 : : is received by me,

Special£ 24 : 8 : *31/10/1861*

Certificate (if required)£ Quintis

Committee's Minute 8th October 1861

Character assigned Δ 1 for 12 Years

Hope
I Minshurst

I concur in the above recommendation

Oct 1861
Lloyd's Register Foundation