

IRON SHIPS.

2489 Survey held at Stockton Date 15 June 65 14 February 1866
 the Barque "CORA LINN" Master Beedie
 Tonnage under tonnage deck 475.20 Built at Stockton When built 1866 Launched 4 Jan 66
 to of poor 24.16 By whom built M. Pearson & Co Owners Cunard Wilson & Co
 to of engine room
 al Register tonnage 499.36 Port belonging to Liverpool Destined Voyage China
 ss tonnage
 Surveyed while Building, Afloat, or in Dry Dock While Building for 400 Tons Rule. A grade

Feet.		Inches.		Feet.		Inches.		Feet.		Inches.		Horse.		N ^o . of Decks	
53		-		27		2		17		2 1/2		-		one	
Dimensions of Ship per Register, length <u>160.4</u> breadth <u>27.1</u> depth <u>17.0</u>															
Inches in Ship.				Inches required per Rule.				Inches in Ship.				Inches required per Rule.			
1. if bar iron, depth and thickness.....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				Plates in Garboard Strakes, breadth and thickness.....			
if plate iron, breadth and thickness....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				Ditto from Garboard to upper part of Bilges..			
2. if bar iron, moulding and thickness....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				" from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold.....			
if plate iron, breadth and thickness....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				" from 3/4ths depth of Hold to lower edge of Sheerstrake.....			
3. if bar iron, moulding and thickness....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				" Sheerstrake, breadth and thickness....			
if plate iron, breadth and thickness....				7 1/2 x 2 1/4				6 3/4 x 2 1/2				Butt Straps to outside plating, breadth and thickness.....			
4. distance of Frames from moulding edge to moulding edge, all fore and aft.....				21				21				Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness..			
across keel 4 ft.				Inches. Inches. 16ths. required required required per Rule. per Rule. per Rule. for 400 tons Scale				Angle Iron on ditto.....				Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways..			
5. times, Size of Angle Iron, single or double..				3 1/2 3 7/16 3 1/2 2 3/4 7/16				Diagonal Tie Plates on ditto (4 pairs) 10 7/16 9 3/4 x 7/16				Planksheer, materials and scantlings gutter			
" Reversed Iron, if to every frame or every other frame.....				3 2 1/2 6/16 2 3/4 2 1/2 6/16				Waterway ditto ditto				Flat of Upper Deck, thickness and material..			
6. for, depth and thickness of Floor Plate at mid line.....				18 1/2 x 7/16 18 x 7/16				" " how fastened to Beams..				Ceiling betwixt Decks and in Hold, thickness and material.....			
Ditto ditto at Bilge Keelson				9 x 7/16 9 x 7/16				Clamps or Spicketting ditto.....				Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness..			
7. Size of Reversed Angle Iron, and No. one - at top of Floor Plate				3 2 1/2 6/16 2 3/4 2 1/2 6/16				Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams (2 pairs) 4 x 3 x 6/16 4 x 3 x 6/16				Stringers in Hold (2 pairs) 4 x 3 x 6/16 4 x 3 x 6/16			
8. Beams, Deck (N ^o . 35) double Angle Iron, Plate, Tee, or Bulb Iron.....				6 1/2 x 6/16 6 1/2 x 6/16				Flat of Lower Deck, thickness and material..				Main piece of Rudder, diameter at head....			
" double or single Angle Iron, on top edge....				2 1/2 2 1/2 6/16 2 1/2 2 1/2 6/16				" " at heel....				(Can the Rudder be unshipped afloat Yes.)			
" average space between.....				3 feet 6 in 3 feet 6 in				Bulkheads, N ^o . one Thickness of 5/16				" Height up main deck			
9. Hold, or Lower Deck (N ^o . 30) double Angle, Tee, Plate, or Bulb Iron				6 1/2 x 6/16 6 1/2 x 6/16				" how secured to the sides of the ship Double frame of Broad Sides				" size of vertical angle irons 3 x 2 1/2 x 6/16 and their distance apart 24 in			
" double or single Angle Iron on top edge....				2 3/4 2 1/2 6/16 2 3/4 2 1/2 6/16				" rivetted through plates with (3/4 in.) rivets, about (6 in) apart.				" reverse angle irons on the floors extend in one length across the middle line from top of Bilge to top of Bilge			
" average space between.....				2nd 4 ft frame 2nd 4 ft frame				" " on the frames " " from top of Bilge to gunwale on alternate frames.				" Keelson, how are the various lengths of plates or angle irons connected? Butts shifted chapped & rivetted			
10. Paddle, sided and moulded, thickness of Plate size of Angle Iron				12 x 10/16 12 x 10/16				" plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets (3/4 ins.) diameter, averaging (2 3/4 ins.) apart.				" Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.			
Engine " " " "				4 3 6/16 4 x 3 x 6/16				" Butts from Keel to turn of bilge, worked carvel with butt straps (9 x 7/16 9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.				" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 in.) apart.			
11. Keelson, single or double plate, box, or intercostal				4 3 6/16 4 x 3 x 6/16				" Do the butt straps lap over and rivet through the lands of the strake below? No				" Edges of Sheerstrake, double or single rivetted? At upper edge single to iron Bulwarks at lower edge Double			
Size of Plates.....				4 3 6/16 4 x 3 x 6/16				" Butts from bilge to planksheers, worked carvel with butt straps (9 x 7/16 9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 3/4)				" Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? double Rivetted			
Size of Angle Irons.....				4 3 6/16 4 x 3 x 6/16				" Planksheer, how secured to the plating of the sides Explain by sketch gutter Waterway				" Waterway " " planksheer and to the Beams if necessary.			
Side, single or double, plate, box, or intercostal				4 3 6/16 4 x 3 x 6/16				" Beams, how secured to the side? Beam ends turned and knees needed.				" Upper or Lower Deck ditto do do			
Bilge (No. one) at each Bilge, single, or double, plate, or box.....				4 3 6/16 4 x 3 x 6/16				" No. of breasthooks 3 crutches 2				" at description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? good			
" angle iron				4 3 6/16 4 x 3 x 6/16				" Manufacturer's name or trade mark "Stockton" "Hopkins"				" We certify that the above is a correct description of the several particulars therein given.			
12. Mansoms, material Iron or, if none, in what manner compensated for.				4 3 6/16 4 x 3 x 6/16				" Builder's Signature M. Pearson				" Surveyor's Signature James Purdie			
13. Night-heads, and Hawse Timbers English Oak				4 3 6/16 4 x 3 x 6/16				" Lloyd's Register Foundation				" IRON 439-0177			
14. The Frames extend in one length from Keel to gunwale				4 3 6/16 4 x 3 x 6/16											
15. The reverse angle irons on the floors extend in one length across the middle line from top of Bilge to top of Bilge				4 3 6/16 4 x 3 x 6/16											
16. " " on the frames " " from top of Bilge to gunwale on alternate frames.				4 3 6/16 4 x 3 x 6/16											
17. Keelson, how are the various lengths of plates or angle irons connected? Butts shifted chapped & rivetted				4 3 6/16 4 x 3 x 6/16											
18. Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets (3/4 ins.) diameter, averaging (2 3/4 ins.) apart.				4 3 6/16 4 x 3 x 6/16											
19. " Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.				4 3 6/16 4 x 3 x 6/16											
20. " Butts from Keel to turn of bilge, worked carvel with butt straps (9 x 7/16 9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.				4 3 6/16 4 x 3 x 6/16											
21. " Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 in.) apart.				4 3 6/16 4 x 3 x 6/16											
22. " Do the butt straps lap over and rivet through the lands of the strake below? No				4 3 6/16 4 x 3 x 6/16											
23. " Edges of Sheerstrake, double or single rivetted? At upper edge single to iron Bulwarks at lower edge Double				4 3 6/16 4 x 3 x 6/16											
24. " Butts from bilge to planksheers, worked carvel with butt straps (9 x 7/16 9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (2 3/4)				4 3 6/16 4 x 3 x 6/16											
25. " Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? double Rivetted				4 3 6/16 4 x 3 x 6/16											
26. " Planksheer, how secured to the plating of the sides Explain by sketch gutter Waterway				4 3 6/16 4 x 3 x 6/16											
27. " Waterway " " planksheer and to the Beams if necessary.				4 3 6/16 4 x 3 x 6/16											
28. " Beams, how secured to the side? Beam ends turned and knees needed.				4 3 6/16 4 x 3 x 6/16											
29. " Upper or Lower Deck ditto do do				4 3 6/16 4 x 3 x 6/16											
30. " No. of breasthooks 3 crutches 2				4 3 6/16 4 x 3 x 6/16											
31. " at description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? good				4 3 6/16 4 x 3 x 6/16											
32. " Manufacturer's name or trade mark "Stockton" "Hopkins"				4 3 6/16 4 x 3 x 6/16											
33. " We certify that the above is a correct description of the several particulars therein given.				4 3 6/16 4 x 3 x 6/16											
34. " Builder's Signature M. Pearson				4 3 6/16 4 x 3 x 6/16											
35. " Surveyor's Signature James Purdie				4 3 6/16 4 x 3 x 6/16											

4552 Iron

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

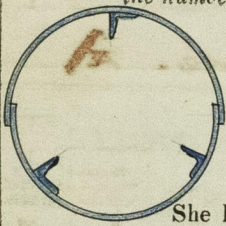
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? They do

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

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? They do and are the rivet holes well and sufficiently countersunk in the outer plate? Sufficiently countersunk

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

Her Masts, Bowsprit, Yards, &c., are in good ^{trizen yards R.F.} condition, and sufficient in size and length. (If they are of Iron or Steel give the 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 rivetting, quality of Materials, and if stamped with Maker's name.



The main and fore of Iron - shapes of "skerne" - 9 feet long
6/16 Body of masts - 5/16 at ends - 2 Bars stiffened with 3 Bars
of angle iron. 4 x 3 x 7/16 - single Rivetted Edges. double at Butts with
1/2 Rivet. 2 3/4 pitch. Main 65 ft. 8 x 22 in. fore 64 ft. 8 x 22 in.
ANCHORS, and their weights.

No.			Fathoms.	Inches.	Tested to Tons.		No.	Weight.	Tested
	Fore Sails,	Chain	270	1 9/16	34				
	Fore Top Sails,	Hamper Stream Cable	90	12/16	10 2/20		3	16.3.14.10	
	Fore Topmast Stay Sails,	Hawser	90	8 1/2				14.3.16.1	
	Main Sails,	Towlines	90	6 1/2				7.1.10.0	
	Main Top Sails,	Warp	90	5				3.2.10.3	
		All of <u>good</u> quality.							
							2	1.3.0.3	

Her Standing and Running Rigging Wire Hemp ^{manila} sufficient in size and good in quality.

She has one Long Boat and one ^{rig} and one ^{Pinnace}

The present state of the Windlass is in oak Capstan one and Rudder good Pumps 3 - 6 inch

Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought special survey
No. 229 Surveys held 2nd. On the plating during the progress of rivetting seen
Date 17 June 65 while building 3rd. When the beams were in and fastened, and before the decks were laid twice each week
Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated while
No. Section 18. 5th. After the ship was launched Building
Date

State if she has a Spar Deck none Half Poop none or Forecastle

General Remarks,

she is fitted with a Raised Quarter deck - all framed
to top height - plating 7/16 - single Rivetted at Edges and double
at Butts with 3/4 Rivet. 2 3/4 apart. (11) Beams of Bulb Iron
6 1/2 x 6/16 with 2 Bars of angle iron on top edge. 2 1/4 x 2 1/4 x 5/16
stringer plates on Beam ends 20 1/2 x 7/16 with an angle iron
on top 4 x 3 x 7/16 + Lie and diagonal plates. 10 x 7/16 -
deck of Y.P. 2 1/2 in fastened with 1/2 B.M. from Lap
Waterways of Oak 9 x 4 1/2 -

Extra double angle iron stringers (4 x 3 x 7/16) fitted for
two birds ships length. between Bulge keelsons and Afted Beam
iron stanchions to each Beam for same distance -

M. Pearce R.

In what manner are the surfaces preserved from oxidation? Inside Bottom cemented. all other work
Ditto ditto Outside inside and out. three coats of paint

I am of opinion this Vessel should be Classed A 1

The amount of the Fee£ 5 : 0 : 0 is received by me,

Special£ 24 : 19 : 0

Certificate (if required)£ : :

Committee's Minute 16th February 18 66

Character assigned A 1

A & C. P.

James Purdie
I am of opinion this sailing
vessel is eligible for
classification as recommended
above.
Lloyd's Register
Foundation