

IRON SHIPS.

Requisition No 265

No. 1789 Survey held at Grunock Date 12th July 1864
 on the Ship "Sam Beatas" Master _____
 Tonnage Gross 1422 4/2 Engine Room _____ Register _____ Built at Grunock
 Under deck 1317 5/8 Keel 104 9/16
 When Built 1864 By whom built Scott & Co. Owners H. J. Wilson & Chambers
 Launched 22nd June 1864
 Port belonging to Liverpool Destined Voyage Glyde to Liverpool and Melbourne
 If Surveyed Afloat or in Dry Dock While building

Length aloft	Feet. Inches.	Extreme Breadth	Feet. Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet. Inches.	Power of Engines	Horse No.
215	7	36	10	25			
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship	Inches in Ship	16ths in Ship	Inches required per Rule	Inches required per Rule	Inches in Ship	16ths in Ship
18				21			
Floors, Size of Angle Iron, and No. Singlet bottom of Floor Plate	Inches in Ship	Inches in Ship	16ths in Ship	Inches required per Rule	Inches required per Rule		
5	3 1/2	9/8	5	3 1/2	9/8		
depth and thickness of Floor Plate at mid line				26	1/8	25.4	1/8
depth and thickness of Floor Plate at Bilge Keelson				15	1/8		1/8
Size of Reversed Angle Iron, and No. Singlet top of Floor Plate				3 1/2	3	8/8	3 1/2
Frames, Size of Angle Iron, single or double				5	3 1/2	9/8	5
Reversed Iron, to every frame and on every alternate frame to bilge				3 1/2	3	8/8	3 1/2
Beams, Deck (No. double Angle Iron or Bulb Iron with double Angle Iron on top)				3 1/4	3 1/4	7/8	3 1/4
depth & thickness of plate amidships				9	Bulb	9/8	9
double or single Angle Iron, on lower edge							
average space between				3 feet		3 feet 6 inches	
if wood (No. sided & moulded)							
Hold, or Lower Deck (No. double Angle Iron or Bulb Iron with double Angle Iron on top)				3 1/4	3 1/4	7/8	3 1/4
depth & thickness of plate amidships				9	Bulb	9/8	9
double or single Angle Iron, on lower edge							
average space between				3 feet		3 feet 6 inches	
if wood (No. sided & moulded)				3 1/4	3 1/4	7/8	3 1/4
Deck, Upper, how fastened to Beams				9	Bulb	9/8	9
Stringers in Hold							
Deck, Lower							
Deck, Upper							

Transoms, material Iron or, if none, in what manner compensated for.
 Right-heads East India Teak Bulkheads, No. Two Thickness of 9/8 7/8
 Base Timbers East India Teak are they free from defects? Yes how secured to the sides of the ship Between double frames
 size of vertical angle iron and their distance apart 3 1/2 x 3 x 3/8 about 30 inches apart

Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (7/8 in.) rivets, about (7 inches) apart.
 reverse angle irons on the floors extend in one length across the middle line from lower deck to Gunwale alternately
 on the frames) ,, ,, from _____ to _____

Keelson, how are the various lengths of plates or angle irons connected? By Angle Iron Butts Straps

Plates, Garboard, double ~~or single~~ rivetted to keel & at upper edge, with rivets (1 1/2 in.) diameter averaging (4 in.) from centre to centre of rivet.
 Edges from Garboards to upper part of bilge, worked ~~carvel~~ with a lining piece (in) thick, or clencher, double ~~or single~~ rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (1/8) thick, double ~~or single~~ rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No
 Edges from bilge to planksheer, worked ~~carvel~~ with a lining piece (in) thick, ^{clencher} double ~~or single~~ rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

Butts from bilge to planksheers, worked carvel with a lining piece (1/8) thick, ~~or clencher~~, double ~~or single~~ rivetted; rivets (7/8 in.) diameter averaging (3 1/2 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (5 1/2) Breadth of laps in single rivetting (in)

Planksheer, how secured to the plating of the sides } Explain by sketch, } Angle Iron
 Waterway ,, ,, planksheer and to the Beams } if necessary. } Iron Butts

Side trussing breadth and thickness of plates how secured?

Deck trussing By plates all fore and aft each side of Hatchways: 16 x 1/2 inch and diagonal plates where practicable

Deck Beams, how secured to the side? Beam ends bracket plates

Hold or Lower Deck ,, Beam ends bracket plates

Paddle ,, ,,

No. of breasthooks Five crutches Five how are pointers compensated?

What description of iron is used for the angle iron and plate iron in the vessel? Scotts Iron Co. Best Iron Builder's Signature Scott & Co.



Workmanship. Are the lands or lips of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double riveted 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 of 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? Single lengths

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? A few

3704
2 Mon

Her Masts, Yards, &c., are in Good condition, and sufficient in size and length. Iron & Steel

She has SAILS.		CABLES, &c.		ANCHORS, and their weights.	
N ^o .		Fathoms.	Inches.	N ^o .	Weight.
	Fore Sails,	Chain			Bower,
	Fore Top Sails,	Hempen Stream Cable			Stream,
	Fore Topmast Stay Sails,	Hawser			Kedge,
	Main Sails,	Towlines			
	Main Top Sails,	Warp			
and		All of _____ quality.			

Her Standing and Running Rigging Keen sufficient in size and Good in quality.

She has _____ Long Boat and _____
 The present state of the Windlass is Good Three Capstans Good and Rudder Good Four Pumps Four lead Good

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

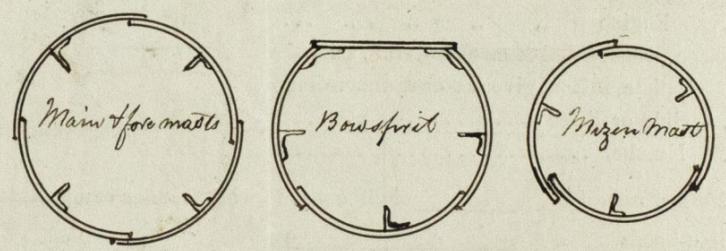
1st. On the several parts of the frame, when in place, and before the plating was wrought
 2nd. On the plating during the progress of rivetting
 3rd. When the beams were in and fastened, and before the decks were laid
 4th. When the ship was complete, and before the plating was finally coated
 5th. After the ship was launched

DATES of Surveys held while building, as per Section 17. } Specially surveyed while building from 15th Oct^r 1862 to 12th July 1864 in all seventy visits.

This vessel has been built under Special Survey as per Order N^o. 265; is ship rigged; is fitted with a full poop and forecastle; has upper and lower decks laid all fore and aft; and is fitted with orlop beams to every sixth frame or nine feet apart; the beams are pillared on the keelson alternately from side to side; and the orlop beams are stayed with angle iron amidships as shown in sketch herewith; also the stringers on the orlop beam ends are supported with heavy bracket plates between the beams

The Owners are anxious to have her classed A instead of 12A as originally signed for.

Parts	Thickness of plating	Rivetting of Edges	Rivetting of Butts	Size of Angle Iron	Number of Angles	Diameter
Main mast	$\frac{8}{16} + \frac{7}{16}$	Double	Double	$4 \times 3\frac{1}{2} \times \frac{8}{16}$	Four	30
Fore mast	$\frac{8}{16} + \frac{7}{16}$	"	"	$4 \times 3\frac{1}{2} \times \frac{8}{16}$	Four	30
Mizen mast	$\frac{8}{16} + \frac{7}{16}$	"	"	$4 \times 3\frac{1}{2} \times \frac{8}{16}$	Three	25
Bow sprit	$\frac{8}{16} + \frac{7}{16}$	"	"	$4 \times 3\frac{1}{2} \times \frac{8}{16}$	Three	28



In what manner are the surfaces preserved from oxidation? Portland cement between the floors up to turn of bilges, and remainder inside and outside three coats of Red lead

I am of opinion this Vessel should be classed A

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

Special£ 71 : 2 : "

Certificate (if required)£ " : " : "

[Handwritten signature]

Committee's Minute 18

Character assigned _____