

# IRON SHIPS.

No. 2987 Survey held at Hull Date 3<sup>rd</sup> July 1858  
on the Barque "Adamant" Master John Bidley  
Tonnage Gross 815  $\frac{3}{10}$  Engine Room \_\_\_\_\_ Register \_\_\_\_\_ Built at Hull & launched May  
When Built 1858 By whom built Mess<sup>rs</sup> M. Samuelson & Co Owners J. O. Harrison  
Port belonging to London Destined Voyage Hull London  
If Surveyed Afloat or in Dry Dock While Building

	Feet.		Inches.		Feet.		Inches.		Feet.		Inches.		Horse No.
Length aloft .....	174 9/10		30		19 3		Power of Engines....						
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft }	18 ✓		Inches required per Rule.				Stem, if bar iron, moulding and thickness .		210 9 1/4 2 1/2 7 1/2 3				
							,, if plate iron, breadth and thickness .						
Floors, Size of Angle Iron, and No. 106 at bottom of Floor Plate..... }	4 1/2 3 8/16 4 1/2 3 8/16		Inches. In Ship. 16ths required per Rule.				Stern-post, if bar iron, moulding and thickness		8 1/4 2 1/4 1 1/2 3				
,, depth and thickness of Floor Plate at mid line .....	19 1/2 10/16 19 1/2 10/16						,, ,, if plate iron, breadth and thickness						
,, depth and thickness of Floor Plate at Bilge Keelson .....	9 3/4 10/16						Keel, if bar iron, depth and thickness.....		9 2 9/16 1 1/2 3				
,, Size of Reversed Angle Iron, and No. 106 at top of Floor Plate.. }	3 1/2 3 1/2 7/16 3 3 7/16						,, if plate iron, breadth and thickness ....						
Frames, Size of Angle Iron, single or double.. }	4 1/2 3 8/16 4 1/2 3 8/16						Garboard Plates, thickness..		Description of Iron. 12/16 ✓ 12/16				
,, ,, Reversed Iron, if to every frame or every frame..... }	3 1/2 3 7/16 3 3 7/16						From Garboard to upper part of Bilge..... }		11/16 ✓ 11/16				
Beams, Deck (N° 4 1/2) double Angle Iron or Bulb Iron with double Angle Iron on top .....	2 3/4 2 3/4 7/16 2 3/4 2 3/4 7/16						From upper part of Bilge to Sheerstrakes..... }		10/16 ✓ 10/16				
,, ,, depth & thickness of plate amidships	7 1/2 T 10/16 7 1/2 10/16						Sheerstrakes .....		11/16 ✓ 11/16				
,, ,, double or single Angle Iron, on lower edge .....	Bulb 1 1/2						Breadth & thickness of Butt Straps to outside plating }		9 12/16 1 1/2 12/16 1 1/2 10/16				
,, ,, average space between .....	3 feet ✓						Planksheers .....		Material. 26 10/16 22 10/16				
,, ,, if wood (N° ) sided & moulded							Gunwale Plate or Stringer on ends of Up. Dk Beams }		Plate iron 4 1/2 3 3/4 8/16 5 1/2 4 1/2 8/16				
,, Hold, or Lower Deck (N° 45) double Angle Iron or Bulb Iron with double Angle Iron on top .....	2 3/4 2 3/4 7/16 2 3/4 2 3/4 7/16						Angle Iron on ditto.....		3 1/2 3 x 3/16				
,, ,, depth & thickness of plate amidships	7 1/2 T 10/16 7 1/2 10/16						Waterway .....		3 1/2 3 x 3/16				
,, ,, double or single Angle Iron, on lower edge .....	Bulb 1 1/2						Deck .....		Plate + 4/8 pine 3 1/2 ✓ 3 1/2				
,, ,, average space between .....	3 feet ✓						Ceiling in Hold .....		Red pine 3 1/2				
,, ,, if wood (N° ) sided & moulded							Ceiling betwixt Decks ....		8. 1 1/2				
,, Paddle, wood, sided and moulded or if Iron, size of Plate .....							Beam Clamps .....						
,, Engine	4 1/2 3 1/2 8/16 5 4 8/16						,, Shelf .....						
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	11 1/2 T 12/16 12 10/16						,, Stringer Plates on ends of Hold or Lower Dk Beams }		Plate iron 26 10/16 22 10/16 with angle iron 4 1/2 3 3/4 8/16 5 1/2 4 1/2 8/16				
,, Side or Bilge	9 1/2 14/16						Ceiling between Decks ....						
,, Number	12 5 def						Stringer or Tie Plates outside Hatchways .... }						
Deck, Upper, how fastened to Beams							Deck Beam Clamps .....						
Deck, Lower							,, ,, Shelf .....		5 3 1/2 10/16 5 x 4 x 8/16				
							Stringers in Hold .....		Angle iron back side				
							Deck, Lower .....						
							Deck, Upper, how fastened to Beams		By screw bolts from top side				

Transoms, material \_\_\_\_\_ or, if none, in what manner compensated for, *plate iron double iron*

Knight-heads } Bulkheads, N°. *Two* Thickness of *6/16*

Hawse Timbers } *Double iron* } are they free from defects? „ how secured to the sides of the ship *between double angle iron ribs*

The Frames or Ribs extend in one length from Keel to Gunnwale rivetted through plates with ( $\frac{3}{4}$  in.) rivets, about ( 6 ) apart.

The reverse angle irons on the floors extend in one length across the middle line from 7 1/2" above to 7 1/2" above the edges alternately

„ „ „ on the frames „ „ „ from 346 below edge to gunwale, making the reversed double windable at the

Keelson, how are the various lengths of plates or angle irons connected? *The double plates are riveted together by a middle tier of rivets. The*

Plates, Garboard, ~~double or single~~ rivetted to keel & at upper edge, with rivets (  $\frac{1}{2}$  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 (  $\frac{1}{4}$  in.) thick, of cleanser, double or single rivetted; rivets (  $\frac{3}{8}$  in.)

Batts from Keel to turn of bilge worked carvel with a lining piece ( $2\frac{13}{16}$ ) thick, double ~~or single~~ rivetted; rivets ( $\frac{7}{8}$  in.) diameter,

Butts from Keel to turn of bidge, worked carver with a lining piece  $\frac{1}{16}$  in. thick, averaging  $(2\frac{1}{2}$  ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? *yes on alternate*


Edges from bilge to planksheer, worked <sup>clinker</sup> carvel with a lining piece ( ) thick, double or single rivetted; rivets ( $\frac{7}{8}$  in.) diameter, averaging

(2½ in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? yes on alternate plates

Butts, from bilge to planksheers, worked carvel with a lining piece ( $\frac{1}{8}$  in.) thick, ~~or clencher, double or single rivetted~~; rivets ( $\frac{1}{8}$  in.) diameter

averaging ( $2\frac{1}{2}$  ins.) from centre to centre of rivets. Breadth of laps in double rivetting ( $4\frac{1}{4}$ ) Breadth of laps in single rivetting ( )

Planksheer, how secured to the plating of the sides { Explain by sketch, } *Gunnwale plate & Watertight secured to the Sheer*

Waterway *in one plate* planksheer and to the Beams (if necessary).  by double iron, and also secured to the beams

Side trussing None breadth and thickness of plates \_\_\_\_\_ how secured? \_\_\_\_\_

Deck trussing Plate iron, 10<sup>1</sup>/<sub>2</sub>" x 7<sup>1</sup>/<sub>8</sub>" (also known as "Huck") on all 4 sides and across on the mainway.  
Ends plate turned down & with plate iron knees rivetted to the ribs.

Deck Beams, how secured to the side Slam into side, with 2" x 4" with plate of 1/2" x 10" x 10" x 10"

Hold or Lower Deck „ 2 4 5 6 7 8 9 10 11 12 © 2019

Paddle " " \_\_\_\_\_  
No. of breasthooks \_\_\_\_\_ crutches \_\_\_\_\_ how are pointers compensated? Plate iron across rivetted to ribs ✓

No. of breasthooks \_\_\_\_\_

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

Builder's Signature \_\_\_\_\_

Monte Samuelson & Co

Foundation

IRON 433-0273



1690 Iron

**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 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? Solid  
 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? No

Her Masts, Yards, &c., are in \_\_\_\_\_ condition, and sufficient in size and length.

She has SAILS.

CABLES, &c.

ANCHORS, and their weights.

N<sup>o</sup>.

Fore Sails,

Fore Top Sails,

Fore Topmast Stay Sails,

Main Sails,

Main Top Sails,

and

Chain .....

Hempen Stream Cable .....

Hawser .....

Towlines .....

Warp .....

All of good quality.

Fathoms.

Inches.

300

90

90

90

100

15

1

7

6

4

Bower, .....

Stream, .....

Kedge, .....

N<sup>o</sup>.

Weight.

37

32

11

5

Her Standing and Running Rigging

is

sufficient in size and

good

in quality.

She has

one

Long Boat and

Two other Boats

The present state of the Windlass is

good

Capstan

Wreck

Rudder

good

Pumps

Iron 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 March 5<sup>th</sup> 1858  
 2nd. On the plating during the progress of rivetting " 25 "  
 3rd. When the beams were in and fastened, and before the decks were laid " 29 "  
 4th. When the ship was complete, and before the plating was finally coated May 6 "  
 5th. After the ship was launched July 13 "

No 2987 Barge "Adamant"

This Vessel was proposed, and considered to be, while building under 800 tons and the scantlings taken as such When finished and the measurements

taken by the Customs, the Vessel is found to be above 800 tons V<sub>g</sub> Hull below the deck 433 86  
 Prop - - - 81.41  
 815.27 tons

The Angle iron Ribs are 4 1/2 x 3 x 3/8 instead of 4 1/2 x 3 x 1/2 required for the 800 tons grade, but the reversed angle iron is larger being 3 1/2 x 3 1/2 in flange and 3 1/2 x 3 x 3/8 in web frame I therefore beg to submit the period of Classification to the Committee's decision In other respects the Vessel is entitled to the 12 years grade

I am Sir,  
 Your Obedt Servant  
 Henry Adams

I am of opinion this Vessel should be classed

Years 12

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

Special .....£ 40: 15: -

Certificate (if required) Required £ 45: 15: -

Committee's Minute 10<sup>th</sup> August 1858

Character assigned 12 Years

Henry Adams

I am of opinion this Vessel is eligible to be classed 12 Years  
 6 Aug 1858  
 Lloyd's Register  
 The General Council