

# IRON SHIPS.

RECEIVED 23d MAY, 92.

3466 Survey held at Grangemouth Date 10<sup>th</sup> March 1869.

Ship "Florence"

Master Thomas Houston

under tonnage deck 459.92  
poop 56.1 <sup>Raise on</sup> ~~on spar~~ deck 24.66

Built at Grangemouth When built 1868:69 Launched 13<sup>th</sup> February 1869

engine room ✓

By whom built Adamson & Co. Owners Adamson & Ronaldson

ster tonnage 840.68

Port belonging to London

Destined Voyage Calcutta via Suez

age not deducted.

while Building, Afloat, or in Dry Dock While Building

Feet. Inches. Extreme Breadth 31 0 Depth from top of Upper Deck Beam to top of Floor 19 6 Power of Engines ✓ No. of Decks Two

Dimensions of Ship per Register, length 190.2 breadth 31 depth 19.55

if bar iron, depth and thickness 4 1/2 x 3 <sup>Inches in Ship.</sup> ~~for 100 tons Scale.~~ 4 1/2 x 3

if plate iron, breadth and thickness ✓

if bar iron, moulding and thickness 4 1/2 x 3 4 1/4 x 3 1/4

if plate iron, breadth and thickness ✓

in-post, if bar iron, moulding and thickness 4 1/2 x 3 4 1/4 x 3 1/4

if plate iron, breadth and thickness ✓

Distance of Frames from moulding edge to moulding edge, all fore and aft 21 21

Names, Size of Angle Iron, single or double 4 1/2 3 8 4 1/4 3 8

Reversed Iron, to every frame 3 3 4 3 3 1/4 4

or every other frame 3 3 4 3 3 1/4 4

Depth and thickness of Floor Plate at mid line 2 1/2 9 20 1/4 9

Ditto ditto at Bilge Keelson 9 ✓ 9 4 1/4 ✓ 9

Size of Reversed Angle Iron, and No. one at top of Floor Plate 3 3 4 3 3 1/4 4

Deck (No. 51) double Angle Iron 8 5 1/4 8 4 1/4 5 1/4 8

Plate, Tee, or Bulb Iron ✓ ✓ ✓ ✓

double or single Angle Iron, on edge ✓ ✓ ✓ ✓

average space between 42 ins 42 ins

Hold, or Lower Deck (No. 50) double Angle, Tee, Plate, or Bulb Iron 8 5 1/4 8 4 1/4 5 1/4 8

double or single Angle Iron, on edge ✓ ✓ ✓ ✓

average space between 42 ins 42 ins

Plate, sided and moulded, ✓ thick- ✓ ✓ ✓

of Plate ✓ size of Angle Iron ✓ ✓ ✓ ✓

double plate, box, or intercostal 14 ✓ 12 14 ✓ 12

Plates ✓ ✓ ✓ ✓

Angle Irons 4 in. No. 5 4 8 5 x 4 x 8

double, plate, box, or intercostal ✓ ✓ ✓ ✓

at each Bilge, 5 4 8 5 x 4 x 8

double, plate, box, or intercostal ✓ ✓ ✓ ✓

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

Timbers Iron

in one length from Keel to Gunwale

the irons on the floors extend in one length across the middle line from Gunwale to top of Lower Deck Beam alternately

on the frames ✓ ✓ ✓ ✓ from Gunwale to top of Lower Deck Beam alternately

are the various lengths of plates or angle irons connected? Butt straps double rivetted

board, double or rivetted to keel, double or at upper edge, with rivets ( 1/8 ins.) diameter, averaging ( 3 1/2 ins.) apart.

Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets ( 1/8 in.) diameter, averaging ( 3 1/2 ins.) apart.

Butts from Keel to turn of bilge, worked carvel with butt straps ( 1/16 ) thick, double or single rivetted; with rivets ( 1/8 in.) diameter, averaging ( 3 1/2 ins.) apart.

Do the butt straps lap over and rivet through the lands of the strake below? No

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 1/2 in.) apart.

Do the butt straps lap over and rivet through the lands of the strake below? No

Edges of Sheerstrake, double & single rivetted? At upper edge Single rivetted At lower edge Double rivetted

Butts from bilge to planksheers, worked carvel with butt straps ( 1/16 ) thick, double or single rivetted; with rivets ( 3/4 in.) diameter, averaging ( 2 1/2 ins.) apart. Breadth of laps in double rivetting ( 5 1/2 times ) Breadth of laps in single rivetting ( 3 1/4 times )

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?

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

Waterway ✓ planksheer and to the Beams if necessary.

Deck Beams, how secured to the side? Welded (Nails) Plates rivetted to Frames

Hold or Lower Deck ditto Welded (Nails) Plates rivetted to Frames

Paddle ✓ No. of breasthooks Five crutches Five

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Angle Iron, Herringbone, Black Iron.

Manufacturer's name or trade mark Beams, Messend. Plates, Mess. H. Darlington.

I certify that the above is a correct description of the several particulars therein given.

Surveyor's Signature Edmund Courchman

Owner's Signature Adamson & Co.

IRON 443-0411



Her Masts, Bowsprit, Yards, &c., are in good 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.

is not  $\frac{7}{16}$  in lieu of  $\frac{14}{10}$   
sufficient. See

Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Specialty  
No. 124 Surveys held 2nd. On the plating during the progress of rivetting Survived while  
Date 7<sup>th</sup> October 1868 while building 3rd. When the beams were in and fastened, and before the decks were laid Building  
Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated from 13<sup>th</sup> August 1868  
No. ✓ Section 18. 5th. After the ship was launched to 10<sup>th</sup> March 1869  
Date ✓

State if she has a Spar Deck Full Poop Top Gallies Forecastle Dick House

General Remarks,

Visits. - August 13<sup>th</sup>, October 5<sup>th</sup>, November 2<sup>d</sup> & 14<sup>th</sup>, December 14<sup>th</sup> & 18<sup>th</sup>, January 13<sup>th</sup>, Feb. 7<sup>th</sup> & 21<sup>st</sup>, & March 10<sup>th</sup> - 1869

This is the Builders first attempt at Iron Ship Building the work throughout is well executed. some of the Iron has been tested and found to be good. I am of opinion the Vessel is entitled to be recommended.

In what manner are the surfaces preserved from oxidation?	Inside	Cemented in the flat. Painted above with Green Coa
	Ditto	ditto
	Outside	Painted with Green Coa

I am of opinion this Vessel should be Classed

The amount of the Fee 10/- £ 5 : 0 : 0 is received by me,

Special .....£ 42: 1: 0

Certificate (if required) .....£   : :

Committee's Minute 19<sup>th</sup> March 1866

*Character assigned*

Travelling Expenses £5.

Dec 24<sup>th</sup> / 3 / 83

Edmund R. Suchman

Same opinion this time  
Ship built good is eligible

Cladding at room temperature

The Committee have passed  
resolutions in favor of the petitioners

10/12/69