

IRON SHIPS.

No. 3010 Survey held at Hull Date November 10 1858
on the Ship Knight Grant Master James Carlyle
Tonnage Gross 1312 Engine Room — Register 1312 Built at Hull Launches
When Built 1858 By whom built Messrs M. Samuelson & Co Owners J. H. Fletcher & Co
Port belonging to Liverpool Destined Voyage —
If Surveyed Afloat or in Dry Dock White Building

Feet. Inches.

Length aloft

208

Feet. Inches.

Extreme Breadth

35

Feet. Inches.

Depth from top of Upper Deck

25

Feet. Inches.

Beam to top of Floor

25

Horse No.

Power of Engines

Inches. In Ship.

Inches. In Ship.

16ths required per Rule.

Inches. In Ship.

Inches. In Ship.

16ths required per Rule.

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

18

18

Floors, Size of Angle Iron, and No. 128 at bottom of Floor Plate

5

3 1/2

9/16

5

3 1/2

9/16

depth and thickness of Floor Plate at mid line

25

4 1/8

25

4 1/8

depth and thickness of Floor Plate at Bilge Keelson

15 1/2

4 1/8

Size of Reversed Angle Iron, and No. 128 at top of Floor Plate

3 1/2

3

5/16

3 1/2

3

5/16

Frames, Size of Angle Iron, single or double

5

3 1/2

9/16

5

3 1/2

9/16

Reversed Iron, if to every frame or every alternate frame

3 1/2

3

5/16

3 1/2

3

5/16

Beams, Deck (No. 54) double Angle Iron or Bulb Iron with double Angle Iron on top

4

3

7/16

depth & thickness of plate amidships

9

1 1/8

4 1/8

8 1/4

4 1/8

double or single Angle Iron, on lower edge

average space between

3 feet

if wood (No.) sided & moulded

Hold, or Lower Deck (No. 54) double Angle Iron or Bulb Iron with double Angle Iron on top

4

3

7/16

depth & thickness of plate amidships

9

4 1/8

8 1/4

4 1/8

double or single Angle Iron, on lower edge

average space between

3 feet

if wood (No.) sided & moulded

Paddle, wood, sided and moulded or if Iron, size of Plate

4

3

7/16

4 1/8

8 1/4

4 1/8

Engine, sided and moulded, iron, size of, or if wood, sided and moulded, size of, or if Iron, size of, or if Plate

9

5 1/2

4 1/2

19/16

5 1/2

4 1/2

19/16

Keelson, wood, sided and moulded, iron, size of, or if wood, sided and moulded, size of, or if Iron, size of, or if Plate

27

27

14/16

16 1/2

4 1/8

19/16

Side plate, of Box, give sketch & dimensions

22

23

11/16

Side or Bilge plate, give sketch & dimensions

23

5 1/2

4 1/2

19/16

Number

Two

Inches. In Ship.

Inches. In Ship.

16ths required per Rule.

Inches. In Ship.

Inches. In Ship.

16ths required per Rule.

Stem, if bar iron, moulding and thickness

9

3

9

3

if plate iron, breadth and thickness

Stern-post, if bar iron, moulding and thickness

9

3

9

3

if plate iron, breadth and thickness

Keel, if bar iron, depth and thickness

9

3

9

3

if plate iron, breadth and thickness

Garboard Plates, thickness..

15/16

15/16

From Garboard to upper part of Bilge

13/16

13/16

From upper part of Bilge to Sheerstrakes

1 1/16

1 1/16

Sheerstrakes

13/16

13/16

Breadth & thickness of Butt Straps to outside plating

9 1/2

13/16

4 1/8

4 1/8

11/16

11/16

Planksheers

5

Gunwale Plate or Stringer on ends of Up. Dk Beams

36

12 1/8

26 1/2

4 1/8

Angle Iron on ditto

5 1/2 x 4 1/2

1 1/8

5 1/2 x 4 1/2

1 1/8

Waterway

12

15

Deck

4 1/2

Ceiling in Hold

2 1/2

Ceiling betwixt Decks

Beam Clamps

Shelf

Stringer Plates on ends of Hold or Lower Dk Beams

36

12 1/8

26 1/2

4 1/8

Ceiling between Decks

18 1/2

4 1/8

Stringer or Tie Plates outside Hatchways

13 1/2

4 1/8

Deck Beam Clamps

Shelf on lower 8" Beams

10

12

Stringers in Hold

5 1/2 x 4 1/2

1 1/8

5 1/2 x 4 1/2

1 1/8

Deck, Lower

3 1/2

Deck, Upper, how fastened to Beams

By screw bolts from upper side

Bulkheads, No. Two

Thickness of 7/8 in. on inside up to Hold beams

how secured to the sides of the ship

between double ribs

size of vertical angle iron and their distance apart

3 1/2 x 3 x 7/8 2 feet 6 inches

The Frames or Ribs extend in one length from

Keel

to

Gunwale

rivettted through plates with (7/8 in.) rivets, about (6 1/4) apart.

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

Bilge

to

Bilge

on the frames

from 9 feet below Bilge

to

top of Hold beams, & from 5 feet below Bilge to gunwale alternately

Keelson, how are the various lengths of plates or angle irons connected?

By plate iron over the butts of Box Keelson & by angle iron on interior of Keelson

Plates, Garboard, double or single rivettted to keel & at upper edge, with rivets (16/16 ins.) 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 rivettted; rivets (7/8 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (9 1/2 x 13/16) thick, double or single rivettted; rivets (7/8 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

Yes

Edges from bilge to planksheer, worked carvel with a lining piece () thick, double or single rivettted; rivets (7/8 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

Yes

Butts from bilge to planksheers, worked carvel with a lining piece (9 x 1/4) thick, or clencher, double or single rivettted; rivets (7/8 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting

Planksheer, how secured to the plating of the sides

Explain by sketch,

Waterway, planksheer and to the Beams

if necessary.

Side trussing

None

breadth and thickness of plates

how secured?

Deck trussing

Plate iron

18 1/2

4 1/8

five 2 feet each side the Hatch, also Diagonal bands by plate iron 13 1/2 x 1 1/8

Deck Beams, how secured to the side?

Ends turned down, and V-plates welded on in depth 3/4 rivettted to the ribs

Hold or Lower Deck

and the Orlop beams secured to the sides the same as the Bulk beams

Paddle

No. of breasthooks

crutches

how are pointers compensated?

1778 *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 ^o .			Fathoms. Inches.	N ^o .	Weight.
	Fore Sails,	Chain			Bower,
	Fore Top Sails,	Hempen Stream Cable			
	Fore Topmast Stay Sails,	Hawser			Stream,
	Main Sails,	Towlines			
	Main Top Sails,	Warp			Kedge,
and		All of _____ quality.			

Her Standing and Running Rigging _____ sufficient in size and _____ in quality.

She has _____ Long Boat and _____

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

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	<u>7 June 1858</u>
	2nd.	On the plating during the progress of rivetting	<u>25 " "</u>
	3rd.	When the beams were in and fastened, and before the decks were laid	<u>16 July "</u>
	4th.	When the ship was complete, and before the plating was finally coated	<u>18 August "</u>
	5th.	After the ship was launched	<u>8 November "</u>

There are fitted in this Ship Stiple standard Pines between decks by three pair at the Fore Mast, three pair at the Main and two pair at the Mizzen Mast, rivetted to the Ribs and Beam plates

In what manner are the surfaces preserved from oxidation? By Paint

I am of opinion this Vessel should be classed 12 years

The amount of the Fee£ 5 : - : - is received by me, *Himey Adams*

Special£ 65 : 12 : -

Certificate (if required)£ 70 : 12 : -

Genl Committee's Minute 18th November 1858

Character assigned A - for 12 years
Brues of Iron

This Survey does not state whether the garboard strakes are double or single coated nor whether the plate on the port side is 20/19 or 20/18 was reviewed. In other respects this vessel appears eligible to class 12 years.
Nov 1858

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