

8572
IRO. N° SHIPS.

Rev 7/12/190

1870

No. 5878 Survey held at Port Glasgow Date 6th December
on the Barque "Loch Urr"

Master Edgar

Tonnage under tonnage deck 696.42
Ditto of quarter deck Break 16.69
Ditto of poop, forecastle, or other erections on upper deck 18.29
Ditto of spar deck
Ditto of engine room
Cross tonnage, less crew space 731.40
Total Register tonnage, as cut on beam 715.42

Built at Port Glasgow When built 1870 Launched 5th Nov 1870

By whom built McCulloch, Patterson & Co Owners D. J. Sproat

Port belonging to Liverpool Destined Voyage Sydney to Melbourne

If Surveyed while Building, 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.	N. of Decks	One second partly laid
(Dimensions of Ship per Register), length 189.8	188 ² / ₁₀	breadth 30.1	depth 18.6						

Keel, bar iron, depth and thickness

, if plate iron, breadth and thickness

Stem, bar iron, moulding and thickness

, if plate iron, breadth and thickness

Stern-post, bar iron, moulding and thickness

, if plate iron, breadth and thickness

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

with 4 feet doubling pieces fore and aft, size of Angle Irons, single or double

Reversed Iron, to every frame and on every alternate frame to Gunwale

, depth and thickness of Floor Plate at mid line

Ditto ditto at Bilge Keelson

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

Ans, Deck (No.) double Angle Iron, Plate, Tee, or Bulb Iron

, double or single Angle Iron, on edge

, average space between

Hold, or Lower Deck (No.) double Angle, Tee, Plate, or Bulb Iron

, double or single Angle Iron on edge

average space between

use, sided and moulded, thickness of Plate size of Angle Iron

engine standing on floors

single or double plate, box, or intercostal

Size of Plates Hog plate

Size of Angle Irons Foundation plate

, single plate, box, or intercostal

(No. one) at each Bilge

single, or double, plate, or box angle

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

Hawse Heads, and Hawse Timbers Iron

frames extend in one length from Keel to Gunwale

reverse angle irons on the floors extend in one length across the middle line from upper part of Hold Beam Stringer Angle Iron and to Deck

, , , and on the frames

, , , from to

Keelson, how are the various lengths of plates or angle irons connected? By plate and Angle Iron Butt straps

Plates, Garboard, double or riveted to keel, double or at upper edge, with rivets (1¹/₂) ins. diameter, averaging (4¹/₂) in. apart.

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

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

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

, Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single riveted; with rivets (3/8 in.) diameter, averaging (3 in.) apart.

, Edges of Sheerstrake, double or single riveted? At upper edge Single at bulwarks and At lower edge double

, Butts from bilge to plankshears, worked carvel with butt straps (1/8, 3/8 + 1/8) thick, double or single riveted; with rivets (3/8 in.) diameter, averaging (3 in.) apart. Breadth of laps in double rivetting (5 inches) Breadth of laps in single rivetting (not any)

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

Planksheer, how secured to the plating of the sides

Waterway , , , planksheer and to the Beams

Deck Beams, how secured to the side?

Hold or Lower Deck ditto

Paddle , , ,

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

Manufacturer's name or trade mark Blockchain Iron 6%

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

Builder's Signature McCulloch, Patterson & Co

Surveyor's Signature Saml. Lapham

No. of breasthooks Four crutches Four

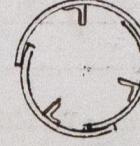
Rover 1447-0317

Lloyd's Register Foundation

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? Yes.
Do the edges of the carvel work and of the butts fay 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 lengths.
Do the holes for rivetting plate to frames, butt straps, 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 in Butts.

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.

Masts &c.	Thickness off Shales.	Rivetting of Butts.	Rivetting of Edges.	Angle Irons &c.	Diameter	
Horn-mast	66	Double	Single	$3 \times 3 \times \frac{1}{2}$	3	23
Main Mast	66	"	"	$3 \times 3 \times \frac{1}{2}$	3	23
Bowsprit	66	"	"	$3 \times 3 \times \frac{1}{2}$	3	22
Mizen Mast	American Red Pine	-	-	-	-	18



Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought
 No. 542 Surveys held 2nd. On the plating during the progress of rivetting
 Date 4th July 1870 while building 3rd. When the beams were in and fastened, and before the decks were laid
 Snn Bostwick, Master as per 4th. When the ship was complete, and before the plating was finally coated
 Order for Ordinary Survey Section 18. 5th. After the ship was launched

Specially surveyed
 while building
 July 1st, Dec 1st, 18
 in all 16 visits

State if she has a Spar Deck _____ Poop _____ or Forecastle

General Remarks. This vessel has been built under Special Survey as per Order No. 542. Is Barque Rigged, and has a raised quarter deck, and Monkey forecastle with a house on deck for part of the crew, and is a sister ship to the "Loch Dhu" Greenock Report No. 5735.

This vessel is built agreeable to Table G for the 1st ^A Grade, but the Owners are now desirous to have her classed 1st ^A .	
Half moulded breadth	15.-
Depth from upper part of Keel to top of Upper deck Beam	21. -
Birth of half midship frame	35. 3
1 st Number	67. 3
Length	187. 2
	13 4 6
	4 7 1
	5 3 8 4
	8 7 3
	<u>12,598.56</u>
On comparing her scantlings with the Rules on the <u>Numeral principle</u> we find them as follows: viz.	
1 st . The greater portion of the outside plating <u>is thicker</u> than required by the Rule.	
2 nd . The frames are <u>placed closer</u> than required, and are the same size all fore and aft.	
3 rd . The reverse frames are <u>slightly less</u> than required being $3 \times 2\frac{3}{4} \times \frac{1}{6}$ instead of $8 \times 3 \times \frac{1}{6}$ required by Rule.	
4 th . The stringers on beam ends are <u>broad</u> er than required.	
5 th . The floors are <u>slightly thinner</u> , but they are deeper than required: also she has a larger Middle line Keelson, and a foundation plate more than the Rules require, as well as an extra side Keelson as shown on sketch herewith for Ninety feet arm'd ships.	
6 th . The principal deviation from the new Rules is that the stringer plates on the Hold beam ends are not connected to the outside plating as required by Rule, consequently the slight deficiencies from the new Rules are in our opinion fully compensated for in the excesses, and is worthy the favourable consideration of the Committee for the 1st ^A Grade.	

In what manner are the surfaces preserved from oxidation? Inside ~~Painted in flat three coats Oxide of Iron paint~~
Ditto ditto Outside ~~Three Coats Oxide of Iron. Oriental antifouling composition on bottom, and
Black paint on topides~~

~~We are~~ ~~of opinion this Vessel should be Classed *A1 or 100 ft. as the Committee may deem fit for the reasons set forth above.~~

Deo^r [Signature] Special £ 35 : 16 : "
 X Certificate (if required) £ " : " : "

Committee's Minute of the Dec 18 1890

[A faint, illegible signature or mark is visible at the bottom left.]

Character assigned 100 A 1

notes
WMS

~~Harris' compound requirements of the
true Rules according to this Case, & they
to concur in the opinion given above to
the question Lumber, under which the
Vessel now built, also to recommend to the
Society Classed by Committee 100 x 1, as recommended
by Ormes.~~