

IRON SHIPS.

No. 5984 Survey held at Grunock Date, First Survey 20th March Last Survey 20th July 1871

On the Iron Barque "Lake Simcoe" Master Stewart

Tonnage under Tonnage Deck	330.86	ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at <u>Grunock</u>
Ditto of Third Spar, or Awning Deck.		Half moulded breadth....	Total Depth if three or more Decks.....	When built <u>1871</u> Launched <u>4th July 1871</u>
Ditto of <u>Keel</u> , or Raised Qr. Dk.	<u>13.24</u>	Depth from upper part of Keel to top of Upper Deck Beams.....	Total Girth of Half Mid-ship Frame.....	By whom built <u>Robert Steele & Co.</u>
Ditto of Houses on Deck.....		Girth of Half Midship Frame (as per Rule)...	3rd Number.....	Owners <u>A. Ramsay</u>
Ditto of Forecastle		1st Number.....	Length.....	Port belonging to <u>Glasgow</u>
Gross Tonnage	<u>350.10</u>	Length.....	4th Number.....	Destined Voyage <u>Glasgow to Marseilles</u>
Crew Space, as per Rule	<u>15.99</u>	2nd Number....	Breadths to Length under 6	If Surveyed while Building, Afloat, or in Dry Dock. <u>While Building and Afloat</u>
Register Tonnage, as per Rule	<u>334.11</u>	Depths to Length. under 10		
Engine Room				
Register Tonnage, as a Steamship, cut on Beam				

Length on deck as per Rule, 145 Feet. Inches. Moulded Breadth, 24.2 Feet. Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule..... 14 Feet. 6 1/2 Inches. Power of Engines, — Horse. No. of Decks with flat laid One No. of Tiers of Beams Two

Dimensions of Ship per Register, length, 152.2 breadth, 24.1 depth, 14.3

	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness.....	<u>6 1/2 x 2</u>	<u>7 1/2 x 2 1/2</u>	Flat Keel Plates, breadth and thickness.....		
Do. if centre through plate, depth and thickness.....	<u>6 1/2 x 2</u>	<u>6 1/2 x 1 1/2</u>	Plates in Garboard Strakes, breadth and thickness.....	<u>30</u>	<u>26</u>
Stern-post for Rudder do. do.	<u>6 1/2 x 2</u>	<u>6 1/2 x 1 1/2</u>	Do. from Garboard to upper part of Bilges ..	<u>26</u>	<u>26</u>
Stern-post for Propeller.....	<u>21</u>	<u>22</u> (Class <u>100 A</u>)	Do. of doubling at Bilge, or increased thickness, and length applied.....		
Distance of Frames from moulding edge to moulding edge, all fore and aft.....	<u>3</u>	<u>2 1/2</u>	Do. fin up. part of Bilge to Ir. edge of Sh'rstrake.....	<u>30</u>	<u>26</u>
Frames, size of Angle Iron, for 1/2 length amidships.....	<u>3</u>	<u>2 1/2</u>	Do. Main Sheerstrake, breadth and thickness.....	<u>30</u>	<u>26</u>
Do. for 1/2 at each end.....	<u>3</u>	<u>2 1/2</u>	Do. of d'bling at Sh'rstrake, & length applied.....		
Reversed Frames, size of Angle Iron.....	<u>2 1/2</u>	<u>2 1/2</u>	Do. from Mn. to Up. or Spar Dk. Sh'rstrake.....		
Floors, depth and thickness of Floor Plate at mid line for half the length amidships.....	<u>16 1/2</u>	<u>16</u>	Do. Up. or Spar Dk Sh'rstrake, brdth & thickns.....		
Do. at the ends.....	<u>3</u>	<u>2 1/2</u>	Butt Straps to outside plating, breadth & thickness.....	<u>9 1/2 x 8</u>	<u>9 1/2 x 7</u>
Do. do. do. at Bilge Keelson.....	<u>7</u>	<u>6</u>	Lengths of Plating.....	<u>10 feet 6 inches</u>	<u>first spaces</u>
Do. height extended at the Bilges.....	<u>4 feet</u>	<u>32 inches</u>	Shifts of Plating, and Stringers.....	<u>Two frames</u>	<u>Two spaces</u>
Beams, Upper, Spar, or Awning Deck (No.).....	<u>6</u>	<u>6</u>	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness.....	<u>21</u>	<u>20 1/2</u>
Single or double Angle Iron, Plate or Tee Bulb Iron.....	<u>2 1/2</u>	<u>2 1/2</u>	Angle Iron on ditto.....	<u>3 1/2 x 3</u>	<u>3 1/2 x 3</u>
Single or double Angle Iron on Upper edge.....	<u>2 1/2</u>	<u>2 1/2</u>	Tie Plates (fore and aft), outside Hatchways.....	<u>7</u>	<u>7</u>
Average space.....	<u>42 inches</u>	<u>44 inches</u>	Diagonal Tie Plates on Beams (No. of Pairs,).....	<u>7</u>	<u>7</u>
Beams, Main or Middle Deck (No.).....	<u>6</u>	<u>6</u>	Planksheer material and scantling.....		
Single or double Angle Iron, Plate or Tee Bulb Iron.....	<u>2 1/2</u>	<u>2 1/2</u>	Waterways do. do. <u>Iron. Bulb.</u>		
Average space.....	<u>84 inches</u>	<u>88 inches</u>	Flat of Upper Deck do. do. <u>Yellow Pine.</u>	<u>3 1/2</u>	<u>3 1/2</u>
Beams, Lower Deck, Hold or Orlop (No.).....			How fastened to Beams <u>By nuts and screw bolts</u>		
Single or double Angle Iron on Upper Edge.....			Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness.....		
Average space.....			(Is the Stringer Plate attached to the outside plating?).....		
Keelson Centre line, single or double plate, box, or Intercoastal, size of Plates.....	<u>11</u>	<u>10 1/2</u>	Angle Irons on ditto (No.).....		
Do. Bulb Plate to Intercoastal Keelson.....	<u>3 1/2</u>	<u>3</u>	Tie Plates, outside Hatchways.....		
Do. Size of Angle Irons.....	<u>3 1/2</u>	<u>3</u>	Diagonal Tie Plates on Beams (No. of pairs,).....		
Do. Side Intercoastal Keelson, size of Plates.....	<u>3 1/2</u>	<u>3</u>	Waterways materials and scantlings.....		
Do. Angle Irons on tops of Floors.....	<u>3 1/2</u>	<u>3</u>	Flat of Middle Deck do. do.		
Do. Bilge Keelson, Bulb Iron.....	<u>3 1/2</u>	<u>3</u>	How fastened to Beams.....		
Do. do. Intercoastal plates riveted to plating for length.....	<u>3 1/2</u>	<u>3</u>	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams.....	<u>18</u>	<u>18</u>
Do. do. Angle Irons.....	<u>3 1/2</u>	<u>3</u>	(Is the Stringer Plate attached to the outside plating?).....	<u>Yes</u>	<u>Yes</u>
Side Stringers (No.) size of Angle Irons.....	<u>3 1/2</u>	<u>3</u>	Angle Irons on ditto (No.).....	<u>3 x 3</u>	<u>3 x 3</u>
Do. Intercoastal plates riveted to plating for length.....	<u>3 1/2</u>	<u>3</u>	Stringer or Tie Plates, outside Hatchways.....	<u>5 x 4</u>	<u>5 x 4</u>

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

Knight-heads Iron Hawse Timbers Iron

Windlass Patent Pulley Block Pall Bitt Iron

The Frames extend in one length from Keel to Gunnwale

The Reverse Angle Irons on the floors and frames extend across the middle line to Upper turn of Bilge and to Gunnwale alternately

Keelsons. Are the various lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes

Plates, Garboard, double or — Riveted to Keel, double or — at upper edge, with Rivets (1 1/4 in.) diameter, averaging (4 1/2 ins.) from centre to centre.

Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre.

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9 1/8) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No

Do. of One Strakes at Bilge for half length, double riveted with Butt Straps 16 thicker than their plates.

Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece (—) thick, or clencher, double or single riveted; with rivets (5/8 in.) diameter, averaging (2 1/4 ins.) from centre to centre.

Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge Single At lower edge Double

Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (9 1/8) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.

Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for — length amidships. Breadth of laps of plating in double Riveting (3 1/4) Breadth of laps of plating in single Riveting (2 1/2)

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double

Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) Iron Butts.

Beams of the various Decks, how secured to the sides? Beam ends turned down No. of Breasthooks, Three Crutches, Three

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

Manufacturer's name or trade mark, Palmers Shipbuilding & Iron Co. Limited

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

Builder's Signature, Robert Steele & Co. Surveyor's Signature, H. B. O. W.

IRON 449 - 0040

Workmanship. Are the butts of plating planed or otherwise fitted? Planed

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? Yes or are they in short lengths of various thicknesses? No

Do the holes for riveting 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 plate and punched from the faying surfaces? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? A few

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 riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit

Fore mast, Main Mast and Bowsprit are of Pitch Pine
Mizen Mast of Red Pine

9140 Lm

Number for equipment <u>7443</u>		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
N ^o .	SAILES.	CABLES, &c.										
	Fore Sails,	Chain	210 third	1 3/8	25 1/2 tons	1 3/8	12. 8. 1/2 1871	5000	12. 0. 12	13. 19. 2. 21	13. 0. 0	13 25/32 ton
	Fore Top Sails,	Chain	210 third	1 3/8	25 1/2 tons	1 3/8	12. 8. 3/4 1871	5010	12. 0. 13	13. 19. 2. 21	12. 0. 0	13 25/32 "
	Fore Topmast Stay Sails	Chain Cable	90 short	4 1/2	4 1/2	4 1/2	12. 8. 10/16 1871	5011	10. 1. 7	12. 6. 2. 7	10. 0. 2 1/2	12 25/32 "
	Main Sails,	Hawser	90	7 1/2	7 1/2	7 1/2	(State Machine where Tested, and name of Superintendent.)					
	Main Top Sails,	Towlines	90	5 1/2	5 1/2	5 1/2						
		Warp	90	4								
		All of <u>Good</u> quality.										

Her Standing and Running Rigging Simple sufficient in size and Good in quality. She has One Long Boat and Two others
The present state of the Windlass is Good Capstan and Rudder Good Pumps Two Main & Two Side Cast Iron Good

Engine Room Skylights.—How constructed? How secured in ordinary weather?

What arrangements are there for deadlights in such for bad weather?

Coal Bunker Openings.—How constructed? How are lids secured? How high above deck?

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Ports in Bulkheads

Cargo Hatchways.—How formed? Iron State size

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams?

Hatches, themselves, whether strong and efficient? Strong & efficient Main Hatchways.—State size 11 feet by 7 feet

Order for Special Survey No. <u>566</u>	DATES of	1st. On the several parts of the frame, when in place, and before the plating was wrought	Specially surveyed while building from March to July 1871 in all 18 visits
Date <u>17 March 1871</u>	Surveys held	2nd. On the plating during the progress of riveting	
Order for Ordinary Survey No. <u></u>	while building	3rd. When the beams were in and fastened, and before the decks were laid	
Date <u></u>	as per	4th. When the ship was complete, and before the plating was finally coated or cemented	
No. <u>76</u> in builder's yard.	Section 18.	5th. After the ship was launched and equipped	

General Remarks, This vessel has been built under special survey as per Order No. 566. Is Barque rigged, and has a raised quarter deck.

Some of the Frames at the Bow are rather closer, and also the plates are from one to two sixteenths thicker about the Water line to fortify the Bow against ice for the trade she is intended; viz.—to Canada.

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecabin or raised quarter deck, or of double or part double bottom.

In what manner are the surfaces preserved from oxidation? Inside Portland Cement to upper part of hull Outside Three coats of Grade of Red paint, and Patent Grease on bottom, Black paint on top plates

I am of opinion this Vessel should be Classed 100 A 1

The amount of the Entry Fee£ 4: " : " is received by me,

July 1871 Special£ 16: 14: "

X Certificate " : " : "

(Travelling Expenses)

(if any) £

Committee's Minute 25th July 1871

Character assigned 100 A 1

I concur in the opinion that this vessel should be classed 100 A 1.

24/7/71 Lloyd's Register Foundation