

IRON SHIPS.

832

No. 5842 Survey held at Port Glasgow Date 8th Sept.

Nov 29/8/79

1870

on the Screw Steamer South Western

Master W. Kinneir

Tonnage under tonnage deck 390.49
 Ditto of ~~deck~~ Poop 49.00
 Ditto of ~~deck~~ ~~other~~ Houses 20.89
 Ditto of spar deck ~ ~ ~
 Ditto of engine room 174.30
 Gross tonnage, less 460.38
 crew space 26.19
 total Register tonnage, as cut on beam 434.19
 259.89

Built at Port Glasgow When built 1870 Launched 28th July 1870
 By whom built Blackwood & Gordon Owners Robert Henderson & Son
 Port belonging to Ardrossan Destined Voyage Ardrossan to Belfast
 If Surveyed while Building, Afloat, or in Dry Dock While Building and Afloat

PLANS

Feet.	Inches.	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines Effective	Horse.	N°. of Decks	Two
Length aloft	190	Extreme Breadth	26	3/10	13			120	600	
(Dimensions of Ship per Register, length 195		breadth	26	depth 12.85						
Keel, if bar iron, depth and thickness.....		Inches in Ship,	for required per Rule, tons Scale.	Plates in Garboard Strakes, breadth and thickness	34	1 1/16	24	9/16		
.. if plate iron, breadth and thickness		7 x 2 1/2	6 3/4 x 2 1/2	Ditto from Garboard to upper part of Bilges	8/16			3/16		
Stem, if bar iron, moulding and thickness		7 x 2 1/2	6 3/4 x 2 1/2	.. from upper part of Bilge to a perpendicular height from upper side of Keel of 3/8ths the entire depth of Hold	7/16			7/16		
.. if plate iron, breadth and thickness		8 1/2 x 4 1/2	6 3/4 x 5	.. from 3/8ths depth of Hold to lower edge of Sheerstrake	7/16			6/16		
Stern-post, if bar iron, moulding and thickness		21	21	.. Sheerstrake, breadth and thickness	30	8/16	24	8/16		
.. if plate iron, breadth and thickness		Inches. In Ship. Inches. In Ship. 16ths. In Ship.	Inches. required per Rule. required per Rule. required per Rule.	Doubled 3/4 length amidships	23	7/16	Doubled for 3/4 length amidships with 7/16 in. pitch pine	10.5.7		
Distance of Frames from moulding edge to moulding edge, all fore and aft		16 1/2	7/16	Butt Straps to outside plating, breadth and thickness	9	10.5.7	10.5.7			
Frames, Size of Angle Iron, single or double	3 1/2	3	7/16	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	27	1 1/16	27	1 1/16		
.. Reversed Iron, to every frame or every frame	2 1/2	2 1/2	6/16	Angle Iron on ditto	4 1/2 x 3 x 7/16	4 1/2 x 3 x 7/16				
Floors, depth and thickness of Floor Plate at mid line	16 1/2	7/16	2 1/2	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	10	8/16	10	8/16		
.. Ditto ditto at Bilge Keelson		7/16		Diagonal Tie Plates on ditto	10	8/16	10	8/16		
.. Size of Reversed Angle Iron, and No. Single at top of Floor Plate	2 1/2	2 1/2	6/16	Planksheer, materials and scantlings						
Beams, Deck (N°.) double Angle Iron, Plate, Tee, or Bulb Iron	6 1/2	8/16		Waterway ditto ditto	18 x 4 1/2					
.. double or single Angle Iron, on upper edge	2 1/2	2 1/2	5/16	Flat of Upper Deck, thickness and material	3 1/2		3			
.. average space between	42 inches	42 inches		By Galvanised Draw Bars and Nuts						
Hold, or Lower Deck (N°.) double Angle Iron, Plate, Tee, or Bulb Iron	6 1/2	8/16		Ceiling betwixt Decks and in Hold, thickness and material	2 1/2					
.. Alternative Beams, Single Angle Irons	5	3	6/16	Clamps or Spirketting						
.. double or single Angle Iron, on upper edge	2 1/2	2 1/2	7/16	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	2 1	6/16	21	8/16		
.. average space between	42	84		Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	4 1/2 x 3 x 7/16	4 1/2 x 3 x 7/16				
Paddle, sided and moulded, thickness of Plate size of Angle Iron				Stringers in Hold at upper part of Bridges as per Sketch						
Engine				Flat of Lower Deck, thickness and material	2 1/2					
Keelson, single or double plate, box or intercostal	16 1/2	7/16		Main piece of Rudder, diameter at head	4 3/4		4 1/4			
.. Size of Plates	8	8/16		" " " " at heel	3 3/4		2 1/2			
.. Size of Angle Irons	15	9/16		(Can the Rudder be unshipped afloat Yes)						
.. Side, single or double plate, box or intercostal	5	3	7/16	Bulkheads, N°. 1 to Thickness of after one 5/16						
.. Bilge (No. one) at each Bilge, single or double plate, or box angle iron 4 1/2 ins. 3	7/16	16 1/4	7/16	.. Height up Four to Upper deck & one to Cabin Sole with Iron Tops						
.. Bulk Iron for 3/8ths the length amidships at upper part 6 1/2 ins. as per Sketch 8/16	8/16	8	8/16	.. how secured to the sides of the ship Between double frames						
Transoms, material Iron or, if none, in what manner compensated for.		15	8/16	.. size of vertical angle irons 2 1/2 x 2 1/2 and their distance apart 30 inches						
Knight-heads, and Hawse Timbers Iron				riveted through plates with (3/4 in.) rivets, about (6 inches) apart.						
The Frames extend in one length from Keel to Gunwale										
Ditto of Poop & Forecastle extend to Gunwale Rail										
The reverse angle irons on the floors extend in one length across the middle line from lower deck beams to Gunwale akeinately										
.. and on the frames ..										
Keelson, how are the various lengths of plates or angle irons connected? By plate and angle iron butt shapes										
Plates, Garboard, double or riveted to keel, double or at upper edge, with rivets (1 3/4 ins.) diameter, averaging (4 1/2 in.) apart.										
.. Edges from Garboards to upper part of bilge, worked clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.										
.. Butts from Keel to turn of bilge, worked carvel with butt straps (1 1/2 x 8/16) thick, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.				Do the butt straps lap over and rivet through the lands of the stave below? No						
.. Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single riveted; with rivets (5/8 in.) diameter, averaging (2 1/2 in.) apart.				Do the butt straps lap over and rivet through the lands of the stave below? No						
.. Edges of Sheerstrake, double or single riveted? At upper edge Single at Angle Irons Double At lower edge Double										
.. Butts from bilge to plankshears, worked carvel with butt straps (7/16 x 9/16) thick, double or single riveted; with rivets (5/8 x 3/4 in.) diameter, averaging (2 1/2 ins.) apart. Breadth of laps in double riveting (4 1/4 ins.) Breadth of laps in single riveting (2 1/2 ins.)										
Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted?				Double riveted						
Planksheer, how secured to the plating of the sides										
Waterway .. planksheer and to the Beams				Explain by sketch { if necessary.						
Deck Beams, how secured to the side?										
Hold or Lower Deck ditto				Beam ends turned down						
Paddle ..				Beam ends turned down						

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Colville & Gray: Martin Fox Head & Co.

Manufacturer's name or trade mark Colville & Gray: Martin and Fox Head & Co.

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

Builder's Signature Sig'd pro. Blackwood & Gordon
A. M. Geach Manager

Surveyor's Signature

No. of breasthooks Four crutches Four

Fox Head & Co. 20.19

100047-027

Lloyd's Register Foundation

8324 Iron

- 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 riveted 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? No
- Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid pieces
- Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivets 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 only

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 are of Pitch Pine
Fore Mast 187 feet long and 17 inches in diameter
Main Mast 184 " " 16 " " "
Mizzen Mast 68 " " 14 " " "

Chain Cables and Anchors tested at Lloyds Depton Proving House Samuel Tregenna Superintendent

N°.	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c N°.		Weight. Ex. Stock.	Test as per Certificate.	Weight per F.
								N°.	Weight.			
One Sail of Sails	Fore Sails, Fore Top Sails, Fore Topmast Stay Sails Main Sails, Main Top Sails,	5035 C. 21/6/1870 Chain Neptune Forge Dudley Emmanuel Birns Superintendent Neptune Stream Cable	210 fathoms 1 3/16 25 7/10 tons	1 3/16 Tons	14/16 14/16	22 6/10 Tons	12 A. 24/6/1870 Bowers	4561 12.2.7	12.2.7	14.8.1.2.10.0	Stock	10.0
		Hawser Towlines Warp	90 90 90	7 5 4 1/4		5.12.2.0 7 5	12 E. 24/6/1870 Neptune Forge Dudley Emmanuel Birns Superintendent Stream	4562 10.3.26 7066	12.1.27 1.3.21 5.0.11	14.6.1.0 12.17.2.0.8.2 6.9.0.0.4.3	Stock	10.0
		All of Good quality.					Kedges	7063 7064	2.2.0 11.1.0	419.0.0.2.1 3.9.0.0.1.0		

Her Standing and Running Rigging Hemp sufficient in size and Good in quality.

She has One Life Boat and Three others Brown and Harfield patent double purchase The present state of the Windlass is good Capstanx Steam Winch and Rudder good with Pumps Four one in Engine Room good's Patent Steering Gear connecting with each

Order for Special Survey DATES of
No. 534 Surveys held 1st. On the several parts of the frame, when in place, and before the plating was wrought
Date 22nd Jan 1870 while building 2nd. On the plating during the progress of rivetting
105 Bulwarks Number 3rd. When the beams were in and fastened, and before the decks were laid
Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated
No. _____ Section 18. 5th. After the ship was launched

State if she has a Spar Deck No. Poop Yes or Forecastle Yes

General Remarks, This vessel has been built under Special Survey as per Order No. 338 She is rigged as a Three Masted fore and aft Schooner and fitted with Poop and Forecastle and House on Deck for part of

She has been built agreeably with Table G for the A Grade, but the Owners are anxious to get the benefit of Circular No. 348 allowing 1/16 off thickness of plating; we therefore recommend her to the favorable consideration of the Committee as being eligible for the A classification.

Approved Midship Section is herewith appended.

In what manner are the surfaces preserved from oxidation? Inside Portland Cement to upper part of bilges & above three coats Red Lead
Ditto ditto Outside Three Coats Red Lead, black paint on top

We are of opinion this Vessel should be Classed A 1. Should the Committee concur in the amount of the Fee £ 5 : 0 : 0 is received by me,
Special £ 21 : 14 : 0
+ Certificate required £ : :

Committee's Minute 30th September 1870

1871 8 00 Oct 1870
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Character assigned A 1

without asterisk
A & C P M C

This Vessel is
eligible to class
as per circular
Circular dated
Aug 1870
Lloyds Register
Foundation