

# IRON SHIPS.

No. 912 Survey held at Dumbarton Date 5<sup>th</sup> May 1852  
 on the Screw Steamer 'Baltic' Master John Thomson  
 Tonnage Gross 534 <sup>65</sup>/<sub>100</sub> Engine Room 136 <sup>30</sup>/<sub>100</sub> Register 398 <sup>40</sup>/<sub>100</sub> Built at Dumbarton  
 When Built 1852 By whom built Alexander Denny Owners Thomas Wilson & Co  
 Port belonging to Shull Destined Voyage Hamburg  
 If Surveyed Afloat or in Dry Dock Building

Length aloft ..... 181 <sup>7</sup>/<sub>10</sub> Feet. 181 Inches. 7 Extreme Breadth... 25 <sup>10</sup>/<sub>10</sub> Feet. 25 Inches. 10 Depth from Beam to top of Floor... 14 <sup>5</sup>/<sub>10</sub> Feet. 14 Inches. 5 Power of Engines.... 90 Horse No.

	Feet.	Inches.	Sketch, when necessary.		Feet.	Inches.	Sketch, when necessary.
Distance between Floors amidships .....	<u>1</u>	<u>3</u>		Stem, <u>1</u> bar iron, moulding and thickness ....	<u>7</u>	<u>1 1/2</u>	
" " " forward and aft ....	<u>1</u>	<u>3</u>		" if plate iron, breadth and thickness ....	<u>6</u>	<u>1</u>	
" " Ribs amidships .....	<u>1</u>	<u>3</u>		Stern-post, <u>1</u> bar iron, moulding and thickness	<u>8</u>	<u>3 1/2</u>	
" " " forward and aft .....	<u>1</u>	<u>3</u>		" " if plate iron, breadth and thickness	<u>6</u>	<u>1</u>	
Floors, Size of Angle Iron, and No. <u>1</u> at				Keel, <u>1</u> bar iron, depth and thickness .....	<u>8</u>	<u>2 1/2</u>	
bottom of Floor Plate .....	<u>4</u>	<u>3 1/2</u>		" if plate iron, breadth and thickness ....	<u>6</u>	<u>1</u>	
" depth & thickness of Plate at mid line..	<u>18</u>	<u>3 1/2</u>	<u>9</u>	Garboard Plates, thickness... Description of Iron.	<u>5</u>	<u>8</u>	
" " " " at turn of bilge	<u>5</u>	<u>2</u>		" to bilge " ....	<u>9</u>	<u>16</u>	
" Size of Reversed Angle Iron, and	<u>3</u>	<u>3</u>	<u>7/16</u>	Bilge " ....	<u>9</u>	<u>16</u>	
No. <u>1</u> at top of Floor Plate..	<u>3</u>	<u>3</u>	<u>7/16</u>	" to Wales " ....	<u>1</u>	<u>2</u>	
Ribs, Size of Angle Iron, single or double....				Wales " ....	<u>1</u>	<u>2</u>	
" " Reversed Iron, <u>if to every frame</u>	<u>2 1/2</u>	<u>2 1/2</u>	<u>3/8</u>	Topsides " ....	<u>1</u>	<u>2</u>	
or every alternate frame .....	<u>2 1/2</u>	<u>2 1/2</u>	<u>3/8</u>	Sheerstrakes " ....	<u>5</u>	<u>8 1/2</u>	
Beams, Deck (No. <u>144</u> ) double or single				Planksheers " ....	<u>None</u>	<u>Angle Iron</u>	
Angle Iron <u>if to every frame</u>	<u>2 1/2</u>	<u>2 1/2</u>	<u>1/4</u>	Gunwale Plate or Stringer..	<u>Plate</u>	<u>22 5/8 x 4 x 3 1/8</u>	
" " depth & thickness of plate amidships	<u>7</u>	<u>3 1/4</u>	<u>1/4</u>	Waterway .....	<u>Pitch Pine</u>	<u>12 6</u>	
" " double or single Angle Iron,				Deck .....	<u>Pitch Pine</u>	<u>3 1/2</u>	
on lower edge .....	<u>2 1/2</u>	<u>2 1/2</u>	<u>1/4</u>	Ceiling in flat .....	<u>Oak</u>	<u>2 1/2</u>	
" " average space between .....	<u>2 1/2</u>	<u>2 1/2</u>	<u>1/4</u>	Bilge Planks inside .....	<u>do</u>	<u>2 1/2</u>	
" " if wood (No. ) sided & moulded				Ceiling from Bilge to Clamps	<u>Open</u>	<u>Shelf Round Iron</u>	<u>2 1/2 x 1/2</u>
" Hold, (No. <u>31</u> ) double or single	<u>6</u>	<u>3 7/16</u>		Hold Beam Clamps .....			
Angle Iron .....	<u>8</u>	<u>5/8</u>		" " Shelf .....			
" " depth & thickness of plate amidships	<u>8</u>	<u>5/8</u>		" " Stringers	<u>Double Angle Iron</u>	<u>6 x 3 x 1/2</u>	
" " double or single Angle Iron,				Ceiling between Decks ....	<u>Open</u>		
on lower edge .....	<u>3 ft. 9 inches</u>			Stringers " .....			
" " average space between .....	<u>3 ft. 9 inches</u>			Deck Beam Clamps .....			
" " if wood (No. ) sided & moulded				" " Shelf .....			
" Paddle, wood, sided and moulded				Stringers in Hold .....			
or if Iron, size of Plate .....				Deck, Lower .....			
" Engine <u>same as sketch above</u>							
Keelson, <u>wood, sided &amp; moulded</u> , iron, size of	<u>6</u>	<u>3 7/16</u>					
plate, <u>if Box, give sketch &amp; dimensions</u>	<u>30</u>	<u>1/2</u>	<u>Plate</u>				
" Side or Bilge .....	<u>3</u>	<u>2 1/2</u>	<u>3/8 x 16 x 1/8</u>				
" Number <u>One each side</u>							

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

Knight-heads " are they free from defects?

Hawse Timbers " are they free from defects?

The Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (1 in.) apart.

The reverse angle irons on the floors extend in one length across the middle line from to the 14 feet Water Line

" " " on the ribs " " " from alternately to Deck Beam Stringer

Keelson, if wood, length of scarp if iron, how are the various lengths connected? Shifted

Plates, Garboard, double or single rivetted to keel, with rivets (7/8 ins.) diameter averaging (3 in.) from centre to centre of rivet.

" edges from Garboards to turn of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets.

" butts from Garboards to turn of bilge, worked carvel with a lining piece (9/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges from bilge to wales, worked carvel with a lining piece (1) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets.

" butts from bilge to wales, worked carvel with a lining piece (1/2) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges of wales and to planksheers, worked carvel with a lining piece (1) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/2 ins.) from centre to centre of rivets.

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

Waterway " " planksheer and to the Beams { if necessary. }

Side trussing breadth and thickness of plates how secured

Deck trussing From Stem to Stern, Plates on each Side of Hatchways to Deck & Hold Beams

Deck Beams, how secured to the side Triangular Plate Nuts Rivetted to Ribs

Hold " " do do do

Paddle " " do do do

No. of breasthooks crutches how are pointers compensated? Angle Iron

What description of iron is used for the angle iron and bar iron in the vessel?

Said to be the Best Alexander Denny

Builder's Signature.



577 Iron

**Workmanship.** Are the lands or laps of the clenchwork in all cases sufficiently wide to take the rivets and support the strain on them?  
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies?  
 Do the fillings between the ribs and plates fill in all solid with sliver pieces, or are they in short lengths?  
 Do the holes for rivetting plate to lining piece, or plate to plate, &c., answer well to each other? and are the rivet holes well and sufficiently countersunk in the outer plate?  
 Are there any rivets which either break into or have been put through the seams or butts of the plating?  
 Was the plating caulked internally in the wake of the frames or ribs?

Her Masts, Yards, &c., are in Good condition, and sufficient in size and length.

She has SAILS.			CABLES, &c.		ANCHORS, and their weights.	
N <sup>o</sup> .		Fathoms.		Inches.	N <sup>o</sup> .	
1	Fore Sails,	125	Chain .....	1 1/2	3	Bower, 15-0-0 & 14-0-0
2	Fore Top Sails,	80	Hempen Stream Cable .....	1 1/2	1	Stream, 6-0-0
3	Fore Topmast Stay Sails,	80	Hawser .....	6	1	Kedge, 3-0-0
4	Main Sails,	80	Towlines .....	5		
5	Main Top Sails,	80	Warp .....	4		
and all other Sails			All of <u>Good</u> quality.			

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

She has Two 26 foot Long Boats and Two 24 foot Boats

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps 8 Good

### GENERAL REMARKS.

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.

*See Watertight Bulkheads  
 Rigged as a Three Masted Schooner  
 Fitted with a Patent Screw Propeller  
 Cutting Certificates of the Chain Cable produced  
 Surveyed by me several times during the progress of Building*

In what manner are the surfaces preserved from oxidation? Three Coats of Red Lead and Linseed Oil Paint and One Coat of Patent Paint on Bottom

I am of opinion this Vessel should be classed A 1.

The amount of the Fee .....£ 5 : : : is received by me,

May Special .....£ 3 : 3 : "

Certificate (if required) .....£ : : 5 : "

Committee's Minute 16<sup>th</sup> May 1854

Character assigned 1 Best of her.



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