

See annexed Report.

# IRON SHIPS.

Row 21/12/70

No. 3580 Survey held at Wingham, Granton Date, First Survey 24<sup>th</sup> June 1868 Last Survey 29<sup>th</sup> September 1870

On the Iron Steam Ship Scotland Master Winby

Age under main Deck } <u>20 1/4</u>	ONE, OR TWO DECKED VESSELS.	THREE DECKED VESSELS.	Built at <u>Wingham</u>
of Spar Deck, } <input checked="" type="checkbox"/>	Half moulded breadth ... <u>18'</u>	Half Moulded Breadth ... <u>18'</u>	When built <u>1868:1869</u> Launched <u>7<sup>th</sup> September 1869</u>
of Awning Deck, } <input checked="" type="checkbox"/>	Depth from upper part of Keel to top of Upper Deck Beams (or as per Rule, Section 11) ... <u>22' 83"</u>	Total Depth if three or more Decks ... <u>29' 83"</u>	By whom built <u>John Wemy</u>
of Poop, or sed Cr. Dk. } <input checked="" type="checkbox"/>	Girth of Half Midship Frame (as per Rule) ... <u>36'</u>	Total Girth of Half Mid- ship Frame ... <u>43'</u>	Owners <u>John Wemy</u>
of Houses } <u>43' 18"</u>	1st Number ... <u>46' 83"</u>	3rd Number ... <u>90' 83"</u>	Port belonging to <u>Leith</u>
Deck } <u>84' 83"</u>	Length ... <u>298'</u>	Length ... <u>298'</u>	Destined Voyage <u>Palautta via Liverpool</u>
Tonnage } <u>2145' 45"</u>	2nd Number ... <u>22895' 34"</u>	4th Number ... <u>24064' 34"</u>	<input checked="" type="checkbox"/> Surveyed while Building, <input type="checkbox"/> Afloat, or in Dry Dock
Space, } <u>88' 44"</u>	Depths to Length. <u>10' 8" &amp; 15' 02"</u>	Breadths to Length ... <u>8' 24"</u>	
er Tonnage, } <u>800' 24"</u>			
on Beam.. } <u>1256' 4"</u>			
Room } <u>800' 24"</u>			
Tonnage, as a } <u>1256' 4"</u>			
cut on the Beam }			

Deck Rule, <u>298' 0"</u>	Moulded Breadth, <u>36' 0"</u>	Feet. Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule ... <u>24' 19"</u>	Feet. Inches. <u>19' 10"</u>	Horse. <u>500</u>	Nº. of Decks, <u>Three</u>	Nº. of Tiers of Beams, <u>Three</u>
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Transoms of Ship per Register, length 304' 1" breadth, 34' 9" depth, 24' 6"

	Inches in Ship.	Inches required per Rule.	16ths required per Rule.	16ths required per Rule.
Flat Keel Plates, breadth and thickness	<u>11 x 3</u>	<u>11 x 2 3/4</u>		
Plates in Garboard Strakes, breadth and thickness	<u>13 1/2 x 3 1/2</u>	<u>11 x 2 3/4</u>		
Do. from Garboard to upper part of Bilges	<u>11 x 3</u>	<u>10 x 2 3/4</u>		
Do. of doubling at Bilge, or increased thickness, and length applied	<u>8 1/2 x 2 1/2</u>	<u>8 1/2 x 2 1/2</u>		
Do. from upper part of Bilge to lower edge of Sheerstrake	<u>10 x 4</u>	<u>10 x 5 1/2</u>		
Do. Main Sheerstrake, breadth and thickness	<u>21</u>	<u>(Class 2 1/2 100A)</u>		
Do. of d'bling at Sh'rstrake, & length applied	<u>5 1/2</u>	<u>5 3/8</u>		
Do. from Main to Upper Deck Sheerstrake	<u>5 1/2</u>	<u>5 3/8</u>		
Do. Up. Deck Sh'rstrake, breadth and thickness	<u>4</u>	<u>3 3/8</u>		
Butt Straps to outside plating, breadth & thickness	<u>11 x 1 1/2</u>	<u>7 1/2</u>		
Lengths of Plating	<u>8 1/2</u>	<u>9</u>		
Shifts of Plating, and Stringers	<u>good</u>			
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	<u>40</u>	<u>10</u>		
Angle Iron on ditto	<u>6 x 5 x 9</u>	<u>4 x 4 x 9</u>		
Tie Plates (fore and aft), outside Hatchways	<u>15</u>	<u>10</u>		
Diagonal Tie Plates on Beams (No. of Pairs, 4)	<u>15</u>	<u>10</u>		
Planksheer material and scantling	<u>1 1/2</u>	<u>1 1/2</u>		
Waterways do. do.	<u>10</u>	<u>9</u>		
Flat of Deck do. do.	<u>3 1/2</u>	<u>3 1/2</u>		
How fastened to Beams	<u>See Bolts &amp; Nuts</u>			
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	<u>4 1/2</u>	<u>14</u>		
(Is the Stringer Plate attached to the outside plating?)	<u>Yes</u>			
Angle Irons on ditto (No. 2)	<u>6 1/2 x 5 1/2</u>	<u>10 1/2</u>		
Tie Plates, outside Hatchways	<u>14</u>	<u>11</u>		
Diagonal Tie Plates on Beams (No. of pairs, 6)	<u>14</u>	<u>11</u>		
Waterways materials and scantlings	<u>10 x 1 1/2</u>	<u>10 x 1 1/2</u>		
Flat of Deck do. do.	<u>4</u>	<u>3 1/2</u>		
How fastened to Beams	<u>See Bolts &amp; Nuts</u>			
Stringer Plates on ends of Lower Deck or Orlop Beams	<u>33</u>	<u>11</u>		
(Is the Stringer Plate attached to the outside plating?)	<u>No. but to</u>			
Angle Irons on ditto (No. one)	<u>6 1/2 x 5 1/2</u>	<u>10</u>		
Stringer or Tie Plates, outside Hatchways	<u>14</u>	<u>11</u>		
Flat of Deck	<u>3 1/2</u>	<u>3 1/2</u>		
Ceiling betwixt Decks, thickness and material	<u>2 1/2</u>	<u>2 1/2</u>		
Do. in hold do. do.	<u>2 1/2</u>	<u>2 1/2</u>		
Clamps or Spirketting	<u>12</u>	<u>9</u>		
Main piece of Rudder, diameter at head	<u>2 1/2</u>	<u>2 1/2</u>		
Do. do. at heel	<u>3 1/2</u>	<u>3 1/2</u>		
(Can the Rudder be unshipped afloat?)	<u>Yes</u>			

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

Knight-heads Iron Hawse Timbers Iron

Windlass Worfield's Patent Pall Bitt Iron

The Frames extend in one length from Keel to Gunwale

The Reverse Angle Irons on the floors extend across the middle line from Side Intercostal Keelson to Upper Deck alternately with these

On all the Frames and to Middle Deck

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

Plates, Garboard, double or treble Riveted to Keel, double or at upper edge, with Rivets (1/4 in.) diameter, averaging (5 1/4 ins.) from centre to centre.

Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (1/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre.

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (1/16) thick, treble, double or single Riveted; with Rivets (1/8 in.) diameter averaging (3 1/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No

Do. Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (1/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre.

Do. Edges of Sheerstrake, double or single Riveted. At upper edge Double riveted At lower edge Double riveted

Do. Butts from Bilge to Planksheers, worked Carvel with Butt Straps (1/16) thick, double or single Riveted; with Rivets (1/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre. Breadth of laps in double Riveting (5 1/4) Breadth of laps in single Riveting ( )

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

Planksheer, how secured to the plating of the sides, ( Explain by Sketch, ) See Section

Waterway " " planksheer and to the Beams, ( if necessary. ) See Section

Beams of the various Decks, how secured to the sides? Welded to Plates No. of Breasthooks, See Crutches, See

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

Manufacturer's name or trade mark, Frames - L. M. B. Walker, Plates - Shepton Malleable Iron Co.

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

Signature, Winby Surveyor's Signature, E. M. B. Walker

IRON 447-0413

