

# IRON SHIP.

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No. 146 Survey held at Shorskog Date, First Survey 6 June 1884 Last Survey October 1886  
 On the New Steel Steam Ship Solon

TONNAGE under Tonnage Deck	312.21	ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.
Ditto of Third, Spar, or Awning Deck.	408.95	Half Breadth (moulded) .. .. . 12 Feet.
Ditto of Poop, or Raised Qr. Dk.		Depth from upper part of Keel to top of Upper Deck Beams 14.15
Ditto of Houses on Deck		Girth of Half Midship Frame (as per Rule) .. . 23.55
Ditto of Fore-castle		1st Number .. .. . 49.60
Gross Tonnage	408.95	1st Number, if a 3-Decked Vessel .. deduct 7 feet
Less Crew Space	30.57	Length .. .. . 141.41
	378.36	2nd Number .. .. . 7013.95
Less Engine Room	76.19	Proportions— Breadths to Length .. .. . 1: 5.87
Register Tonnage as cut on Beam	302.17	Depths to Length—Upper Deck to Keel .. .. .
		Main Deck ditto .. .. . 1: 9.99

Master J. Samuelsson  
 Built at Shorskog  
 When built 85-1886 Launched 1 Oct 1885  
 By whom built P. Larsson  
 Owners J.  
 Residence Shorskog near Gathelus  
 Port belonging to J.  
 Destined Voyage Russia  
 If Surveyed while Building, Afloat, or in Dry Dock. While Building

Serial Number

LENGTH on deck as per Rule ...	Feet. Inches.	BREADTH—Moulded... 141.7	Feet. Inches.	DEPTH top of Floors to Upper Deck Beams ... 14.15	Feet. Inches.	Power of Engines ... 60	Horse.	Nº. of Decks with flat laid	Nº. of Tiers of Beams
Dimensions of Ship per Register, length, <u>141.7</u> breadth, <u>12</u> depth, <u>14.15</u>									
KEEL, depth and thickness .. .. .		Inches in Ship. <u>7" x 1 5/8</u>		Inches per Rule. <u>7 x 1 5/8</u>		Flat Keel Plates, breadth and thickness .. .. .			
STEM, moulding and thickness... .. .		<u>7 x 1 5/8</u>		<u>7 x 1 5/8</u>		PLATES in Garboard Strakes, br'dth & thickness	<u>36</u>	<u>13/32</u>	<u>30</u>
STERN-POST for Rudder do. do. .. .		<u>6 3/4 x 3 3/4</u>		<u>6 3/4 x 3 3/4</u>		From Garboard to upper part of Bilges... .. .	<u>6 x 5</u>	<u>16</u>	<u>6 x 5</u>
" " for Propeller .. .. .		<u>6 3/4 x 3 3/4</u>		<u>6 3/4 x 3 3/4</u>		" Of d'bling at Bilge, or increased thickness, and length applied	<u>6 x 5</u>	<u>16</u>	<u>6 x 5</u>
Distance of Frames from moulding edge to moulding edge, all fore and aft .. .		<u>21</u>		<u>21</u>		" From up. prt of Bilge to lr. edge of Sh'rstrake... .. .	<u>6 x 5</u>	<u>16</u>	<u>6 x 5</u>
						" Main Sheerstrake, breadth and thickness.....	<u>30</u>	<u>13/32</u>	<u>30</u>
FRAMES, Angle Iron, for 2/3 length amidships .. .		<u>3</u>	<u>3</u>	<u>5/16</u>	<u>3</u>	" Of d'bling at Sh'stk. & lng. applied	<u>21</u>	<u>13/32</u>	<u>30</u>
Do. for 1/3 at each end .. .. .		<u>3</u>	<u>3</u>	<u>5/16</u>	<u>3</u>	" From M'n. to Upr. or Spar Dk. Sh'rstrake....			
REVERSED FRAMES, Angle Iron .. .. .		<u>2 1/2</u>	<u>2 1/2</u>	<u>4/16</u>	<u>2 1/2</u>	" Up. or Spar Dk Sh'rstrake, br'dth & thckn'ss... .. .			
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships .. .		<u>14</u>		<u>6/16</u>	<u>14</u>	Butt Straps to outside plating, breadth & thickness	<u>9 3/4 x 8</u>	<u>5 x 6</u>	<u>9 3/4 x 8</u>
" thickness at the ends of vessel .. .				<u>5/16</u>		Lengths of Plating	<u>10'-6"</u>		
" depth at 2/3 the half-bdth. as per Rule .. .		<u>7 1/2</u>		<u>7</u>		Shifts of Plating, and Stringers	<u>42"</u>		
" height extended at the Bilges... .. .		<u>28</u>		<u>28</u>		Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...}			
BEAMS, Upper, Spar, or Awning Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron						Angle Iron on ditto .. .. .			
Upper Deck—						Tie Plates fore and aft, outside Hatchways			
Angle Iron, Plate or Tee Bulb Iron						Diagonal Tie Plates on Beams No. of Pairs			
Angle Iron on Upper Edge .. .. .		<u>2 1/2</u>	<u>2 1/2</u>	<u>5/16</u>	<u>2 1/2</u>	Flat of Up., Spar, or Awning Dk.*			
Plate .. .. .		<u>42</u>		<u>42</u>		How fastened to Beams .. .. .			
Lower Deck—						Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness .. .	<u>28 1/2</u>	<u>7/16</u>	<u>28</u>
Angle Iron, Plate or Tee Bulb Iron						Is the Stringer Plate attached to the outside plating?	<u>Yes</u>		
Angle Iron on Upper Edge .. .. .		<u>6</u>		<u>6</u>		Angle Irons on ditto, No. 2 .. .. .	<u>3 x 3 x 4/16</u>	<u>3 x 3 x 4/16</u>	
Plate .. .. .		<u>42</u>		<u>42</u>		Tie Plates, outside Hatchways .. .. .	<u>8</u>	<u>7/16</u>	<u>8</u>
Orlop—						Diagonal Tie Plates on Beams, No. of pairs			
Angle Iron, Plate or Tee Bulb Iron						Flat of Middle Deck* do. do. .. .	<u>5</u>	<u>3</u>	<u>3</u>
Angle Iron on Upper Edge .. .. .		<u>2 1/2</u>	<u>2 1/2</u>	<u>5/16</u>	<u>2 1/2</u>	How fastened to Beams .. .. .	<u>6 x 4 x 1/16</u>		
Plate .. .. .		<u>42</u>		<u>42</u>		Stringer Plates on ends of Lower Deck, Hold or Orlop Beams .. in Raised Quarter Deck	<u>20</u>	<u>4/16</u>	<u>20</u>
Orlop Beams .. .. .		<u>6</u>		<u>6</u>		Is the Stringer Plate attached to the outside plating?	<u>Yes</u>		
Angle Iron on Upper Edge .. .. .		<u>2 1/2</u>	<u>2 1/2</u>	<u>5/16</u>	<u>2 1/2</u>	Angle Irons on ditto, No. .. .. .	<u>3 x 3</u>	<u>4/16</u>	<u>3 x 3 x 4/16</u>
Plate .. .. .		<u>42</u>		<u>42</u>		Tie Plates, outside Hatchways .. .. .	<u>8</u>	<u>7/16</u>	<u>8</u>
Centre line, single or double plate, or Intercostal, Plates .. .		<u>10</u>		<u>8/16</u>	<u>10</u>	Diagonal Tie Plates on Beams, No. of pairs			
Plate .. .. .		<u>7 1/2</u>		<u>8/16</u>	<u>7 1/2</u>	Flat of Middle Deck* do. do. .. .	<u>5</u>	<u>3</u>	<u>3</u>
Plate to Intercostal Keelson .. .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	How fastened to Beams .. .. .	<u>6 x 4 x 1/16</u>		
Keelsons .. .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams .. in Raised Quarter Deck	<u>20</u>	<u>4/16</u>	<u>20</u>
Angle Iron Side Keelson .. .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	Is the Stringer Plate attached to the outside plating?	<u>Yes</u>		
Intercostal Plate .. .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	Angle Irons on ditto, No. .. .. .	<u>3 x 3</u>	<u>4/16</u>	<u>3 x 3 x 4/16</u>
Plate to outside plating with angle iron .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	Stringer or Tie Plates, outside Hatchways .. .			
Keelsons .. .. .		<u>3 1/2</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	Flat of Lower Deck* .. .. .			
Bulb Iron .. .. .		<u>3</u>	<u>3</u>	<u>4/16</u>	<u>3</u>	Ceiling betwixt Decks, thickness and material .. .	<u>Butter &amp; Spar</u>		
Intercostal plates riveted to plating for .. length .. .		<u>3</u>	<u>3</u>	<u>4/16</u>	<u>3</u>	" in hold do. do. .. .	<u>2</u>		
STRINGER Angle Irons .. .. .		<u>3</u>	<u>3</u>	<u>4/16</u>	<u>3</u>	Main piece of Rudder, diameter at head .. .	<u>3 3/4</u>		<u>3 3/4</u>
Intercostal plates riveted to plating for .. length .. .		<u>3</u>	<u>3</u>	<u>4/16</u>	<u>3</u>	do. at heel .. .. .	<u>2 1/4</u>		<u>2 1/4</u>
SIDE STRINGER Angle Irons .. .. .		<u>3</u>	<u>3</u>	<u>4/16</u>	<u>3</u>	Can the Rudder be unshipped afloat?	<u>Yes</u>		
						Bulkheads No. <u>4</u> No. per Rule <u>4</u>			

State clearly where plating is of alternate thickness—as distinguished from diminished thickness at ends of vessel.

The FRAMES extend in one length from Keel to Main Deck Riveted through plates with 3/4 x 5/8 in. Rivets, about 5 apart.  
 The REVERSED ANGLE IRONS on floors and frames extend from middle line to Upper Edge of Side Stringer and to Main Deck alternately  
 KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes  
 PLATING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 4 3/4 ins. from centre to centre.  
 " Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 ins. from centre to centre.  
 " Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 x 5/8 in. diameter averaging 3 x 2 1/2 ins. from centre to centre.  
 " Butts of 1 Strakes at Bilge for 7/2 length, double riveted with Butt Straps 7/16 thicker than the plates they connect.  
 " Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 5/8 in. diameter, averaging 2 1/2 ins. from cr. to cr.  
 " Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 5/8 in. diameter, averaging 2 1/2 ins. from cr. to cr.  
 " Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.  
 " Butts of Main Sheerstrake, double riveted for all length amidships. Butts of Upper or Spar Sheerstrake, treble riveted all length amidships.  
 " Butts of Main Stringer Plate, double riveted for all length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for all length.  
 " Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 1/2  
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? No. No. of Breasthooks, 4 Crutches, 2  
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Steel from Steel Co. of Scotland  
 Manufacturer's name or trade mark, .. .. .  
 The above is a correct description.  
 Builder's Signature, .. .. . Surveyor's Signature, C. J. Hall  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Form No. 1 for Iron .. 400 .. 11 2.

