

# IRON SHIP.

No. *3636* Survey held at *Workington* Date, First Survey *19<sup>th</sup> Sept 1882* Last Survey *8<sup>th</sup> Sept 1883*  
 On the *Iron Screw Steamer Scale Force*

TONNAGE under } *190.00*  
 Tonnage Deck }  
 Ditto of Third, Spar, or Awning Deck } *Hatches 6.63*  
 Ditto of Poop, or Raised Or. Dk. } *21.79*  
 Ditto of Houses on Deck } *10.52*  
 Ditto of Forecastle } *4.3*  
 Gross Tonnage *229.37*  
 Less Crew Space *26.89*  
*202.48*  
 Less Engine Room *112.81*  
 Register Tonnage as cut on Beam } *89.67*

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.  
 Half Breadth (moulded) .. .. . *10.50*  
 Depth from upper part of Keel to top of Upper Deck Beams *10.16*  
 Girth of Half Midship Frame (as per Rule) .. .. . *18.76*  
 1st Number .. .. . *39.42*  
 1st Number, if a 3-Decked Vessel .. .. . deduct 7 feet  
 Length .. .. . *129.0*  
 2nd Number .. .. . *5085*  
 Proportions— Breadths to Length .. .. . *6.14*  
 Depths to Length—Upper Deck to Keel .. .. . *12.7*  
 Main Deck ditto .. .. .

Master — *Fee*  
 Built at *Workington*  
 When built *1883* Launched *21<sup>st</sup> July*  
 By whom built *R Williamson & Son*  
 Owners *Kennamagh & Co.*  
 Residence *Whitehaven*  
 Port belonging to *Whitehaven*  
 Destined Voyage *Liverpool*  
 If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule ... *129 0* BREADTH—Moulded... .. *21 0* DEPTH top of Floors to Upper Deck Beams ... .. *9 2* Power of Engines ... .. *50* No. of Decks with flat laid one No. of Tiers of Beams *one*

Dimensions of Ship per Register, length, *130.0* breadth, *21.25* depth, *8.85*

KEEL, depth and thickness .. .. . *6 3/4 x 1 1/4*  
 STEM, moulding and thickness... .. *6 x 1 1/4*  
 STERN-POST for Rudder do. do. ... .. *6 x 2 1/2*  
 " " for Propeller .. .. . *6 x 2 1/2*  
 Distance of Frames from moulding edge to moulding edge, all fore and aft .. .. . *20*  
 FRAMES, Angle Iron, for 1/2 length amidships .. .. . *3 2 1/2 5*  
 Do. for 1/4 at each end .. .. . *3 2 1/2 5*  
 REVERSED FRAMES, Angle Iron .. .. . *2 1/2 2 1/2 4*  
 FLOORS, depth and thickness of Floor Plate at mid line for half length amidships .. .. . *12 5*  
 " thickness at the ends of vessel .. .. . *6 6*  
 " depth at 3/4 the half-bdth. as per Rule .. .. . *6 6*  
 " height extended at the Bilges... .. *24 24*  
 BEAMS, Upper, Spar, or Awning Deck } *4 2 1/2 5*  
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
 Single or double Angle Iron on Upper edge .. .. . *20 20*  
 Average space... .. *4 2 1/2 5*  
 BEAMS, Main, or Middle Deck } *4 2 1/2 5*  
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
 Single or double Angle Iron, on Upper Edge .. .. . *20 20*  
 Average space... .. *4 2 1/2 5*  
 BEAMS, Lower Deck } *4 2 1/2 5*  
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
 Single or double Angle Iron on Upper Edge .. .. . *20 20*  
 Average space... .. *4 2 1/2 5*  
 BEAMS, Hold, or Orlop } *4 2 1/2 5*  
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
 Single or double Angle Iron on Upper Edge .. .. . *20 20*  
 Average space... .. *4 2 1/2 5*  
 KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates .. .. . *8 1/2 7 x 6 8 1/2 7 x 6*  
 " Rider Plate .. .. .  
 " Bulb Plate to Intercoastal Keelson .. .. .  
 " Angle Irons on side of keel line .. .. . *4 3 1/2 8 4 3 1/2 8*  
 " Double Angle Iron Side Keelson .. .. . *3 3 6 3 3 6*  
 " Side Intercoastal Plate .. .. . *4 4*  
 " do. Angle Irons .. .. . *2 1/2 2 1/2 4 2 1/2 2 1/2 4*  
 " Attached to outside plating with angle iron .. .. .  
 BILGE Angle Irons .. .. . *3 3 6 3 3 6*  
 " do. Bulb Iron... .. *5 5 5 5*  
 " do. Intercoastal plates riveted to plating for length } *for 3/4 length knee to tank side*  
 BILGE STRINGER Angle Irons .. .. .  
 " Intercoastal plates rivoted to plating for side stringer Bulb for half length } *5 5 5 5*  
 SIDE STRINGER Angle Irons .. .. . *3 3 6 3 3 6*

Flat Keel Plates, breadth and thickness .. .. .  
 PLATES in Garboard Strakes, br'dth & thickness *30 7 30 7*  
 " From Garboard to upper part of Bilges... .. *6 6*  
 " Of d'bling at Bilge, or increased thickness, and length applied .. .. .  
 " From up. prt of Bilge to l. edge of Sh'rstrake... .. *6 6*  
 " Main Sheerstrake, breadth and thickness..... *30 9 30 9*  
 " Of d'bling at Sh'stk. & lng. applied *26 7 26 7*  
 " From M'n. to Up. or Spar Dk. Sh'rstrake... .. *In way of R. 20<sup>th</sup> inch*  
 " Up. or Spar Dk Sh'rstrake, br'dth & thick'ns... ..  
 Butt Straps to outside plating, breadth & thickness *14 1/2 x 8. 5. 10 9 3/4 x 8. 10.*  
 Lengths of Plating *7 spaces*  
 Shifts of Plating, and Stringers *2 spaces*  
 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness... .. *23 7 23 7*  
 Angle Iron on ditto .. .. . *3 x 3 x 6 3 x 3 x 6*  
 Tie Plates fore and aft, outside Hatchways  
 Diagonal Tie Plates on Beams No. of Pairs  
 Flat of Up., Spar, or Awning Dk. \* *Iron deck 5 5*  
 How fastened to Beams .. .. . *Riveted*  
 Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness .. .. . *23 7 23 7*  
 Is the Stringer Plate attached to the outside plating? *yes*  
 Angle Irons on ditto, No. *one* .. .. . *3 x 3 x 6 3 x 3 x 6*  
 Tie Plates, outside Hatchways .. .. .  
 Diagonal Tie Plates on Beams, No. of pairs  
 Flat of Middle Deck \* do. *Iron deck 5 5*  
 How fastened to Beams .. .. . *Riveted*  
 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams .. .. .  
 Is the Stringer Plate attached to the outside plating? .. .. .  
 Angle Irons on ditto, No. .. .. .  
 Stringer or Tie Plates, outside Hatchways .. .. .  
 Flat of Lower Deck \* .. .. .  
 Ceiling betwixt Decks, thickness and material... .. *2 2*  
 " in hold do. do. .. .. . *Double on tank (Sps)*  
 Main piece of Rudder, diameter at head .. .. . *3 1/2 3 1/2*  
 do. at heel .. .. . *2 2*  
 Can the Rudder be unshipped afloat? *yes*  
 Bulkheads No. *3* No. per Rule *3*  
 " Thickness of *1/4*  
 " Height up *Main & R<sup>d</sup> 2<sup>nd</sup> Deck*  
 " How secured to sides of ship *double frames*  
 " Size of Vertical Angle Irons *2 1/2 x 2 1/2 x 1/4* and distance apart *30 ins.*  
 " Are the outside Plates doubled two spaces of Frames in length? *yes*

The FRAMES extend in one length from *keel* to *gunwale* Riveted through plates with *5/8 x 3/4* in. Rivets, about *5 x 6* apart.  
 The REVERSED ANGLE IRONS on floors and frames extend from middle line to side stringer and to *keel 2<sup>nd</sup> side* 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 *5* 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 *5/8* in. diameter averaging *2 1/2* ins. from centre to centre.  
 " Butts of one Strakes at Bilge for half length, treble riveted with Butt Straps *1/16* 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, treble riveted for half length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships.  
 " Butts of Main Stringer Plate, treble riveted for half length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length.  
 " Breadth of laps of plating in double riveting *4 1/2* Breadth of laps of plating in single riveting *2 5/8*  
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? No. of Breasthooks, *3* Crutches, *2*  
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *best*  
 Manufacturer's name or trade mark, *Stockton M.S. Coy., Consett, Bolekoe, Vaughan, Sorman, Long & Co.*  
 The above is a correct description.  
 Builder's Signature, *R Williamson & Son* Surveyor's Signature, *C Buchanan*  
 Surveyor to Lloyd's Register of British and Foreign Shipping.



Workmanship. Are the butts of plating plained or otherwise fitted? *plained*  
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*  
Are the fillings between the ribs and plates solid single pieces? *yes*  
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes*  
Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes*  
Do any rivets break into or through the seams or butts of the plating? *a few in the butts of the garboard shakes.*

Masts, Bowspit, Yards, &c., are *now* in *good* condition, and sufficient in size and length. If of Iron or Steel give scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowspit 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 Bowspit

*Fore Mast length overall 60 ft. 0 ins Star. at partners 12 1/2 Pitch Pine*  
*Main Mast length overall 46 ft. 0 ins 10 1/2 Spruce*

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Supplied.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wt. req'd per Rule.	Machine where Tested & Supplied.
SAILS.												
CABLES, &c.												
N <sup>o</sup> .	Chain	166	7/8	20 5/8	165 x 5/8		Bower Anchors	11476	6.0.7.	8.7.2.0.	5.8.0.	
	Fore Sails,	<i>Sunderland 13<sup>th</sup> Feb. 83.</i>										
	Fore Top Sails,	<i>No. of Cert. 4763</i>						11546	5.3.0.	8.0.2.14	5.8.0.	
	Fore Topmast Stay Sails,	<i>10<sup>th</sup> Feb. 83. 10.8.6.4</i>										
	Main Sails,	<i>10<sup>th</sup> Feb. 83. 10.8.6.4</i>										
	Main Top Sails,	<i>10<sup>th</sup> Feb. 83. 10.8.6.4</i>										
	and	<i>quality Good</i>										

Standing and Running Rigging *wire & hemp* sufficient in size and *good* in quality. She has *one* Long Boat and  
The Windlass is *Emerson Walker's* Capstan and Rudder *Good* Pumps *as per approved plan.*

Engine Room Skylights. How constructed? *iron* How secured in ordinary weather? *riveted.*

What arrangements for deadlights in bad weather? *sidelights riveted to skylight*

Coal Bunker Openings. How constructed? *cast iron* How are lids secured? *locking.* Height above deck? *12 ins.*

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? *Six scuppers and six water ports - traler ports 2 ft 0" x 1 ft 3"*

Cargo Hatchways. How formed? *Iron comings standing 30 ins above the deck.*

State size Main Hatch *30 ft 0 ins x 10 ft 0 ins* Fore hatch *6 ft 8 ins x 6'0"* Quarter hatch

If of extraordinary size, state how framed and secured? *Deck plating in way of main hatch increased 1/16 in thickness*

What arrangement for shifting beams? *Two deep web plates in main hatch.*

Hatches, If strong and efficient? *yes. solid 3 1/2" thick.*

Order for Special Survey No. *329* DATES of Surveys held while building as per Section 18.  
1st. On the several parts of the frame, when in place, and before the plating was wrought } *Sept. 19. 22. 25. Oct. 2. 11. 13. 19. 27. 30. Nov. 1. 4. 7. 13. 16. 20. 22. 27. 30*  
2nd. On the plating during the process of riveting } *Sept. 5. 7. 12. 15. 19. 21. 28. 1883 Jan. 3. 9. 11. 16. 19. 23. 26. 2*  
3rd. When the beams were in and fastened, and before the decks were laid... } *Feb. 2. 5. 9. 12. 19. 21. 26. 28. March. 6. 9. 13. 16. 19. 21. 28. April. 3. 6. 1*  
4th. When the ship was complete, and before the plating was finally coated or cemented.. } *18. 20. 24. 27. May. 1. 4. 10. 14. 17. 28. June 1. 7. 11. 14. 18. 2*  
5th. After the ship was launched and equipped } *July. 5. 11. 18. 20. 21. 25. 26. Aug. 20. 23. 24. 25. 28. Sept. 8.*

General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with*

*the Rules, the accompanying approved plans, and the Secretary's*

*letters dated 7<sup>th</sup> June, 26<sup>th</sup> June, 19<sup>th</sup> October, 1882, and 27<sup>th</sup> February 1883.*

*The quality of the workmanship is good. The water ballast tank has*

*been tested prior to the launching of the vessel and proved satisfactory.*

*Length of Raised Quarter deck 44 ft 0 ins*

*do Bridge 10 ft 0 ins*

*do Forecastle 18 ft 0 ins*

*State if one, two, or three decked vessel, or if spar, or running decked; and the lengths of poop, bridge, forecastle, or raised quarter deck. (If double bottom, state particulars on separate form.)*

How are the surfaces preserved from oxidation? Inside *cement and paint.* Outside *paint.*

I am of opinion this Vessel should be Classed *\*100A1*

The amount of the Entry Fee ... £ 2 : - : - is received by me, } *C.B.*

Special ... £ 11 : 9 : - *13<sup>th</sup> Sept 1883*

Certificate ... : - : -

(Travelling Expenses, if any, £ 610. 0.)

Committee's Minute TUESDAY 18 SEPT 1883 18

Character assigned *100A1*

*MLC*

*Ad P*

*1883 (200)*

*Lloyd's Register*

*Foundation*