





PLATING.										RIVETING.																																																																																																									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES.				BUTTS.																																																																																																						
	AMIDSHIP.	FORWARD.	AFT.	THICKNESS.	AMIDSHIP.	FORWARD.	AFT.	THICKNESS.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAKES.	IF LAPPED.																																																																																																				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Thickness.	Thickness.		Inches.	Diam.	Spacing or to center.	Diam.	Spacing or to center.	For what Length.																																																																																																				
FLAT PLATE KEEL	14.8	20	14	14	14.8	20	14	14	double	6	1	1 1/2	treble	1	3 1/2	19 14 13																																																																																																			
Garboard A Strake	5.4	15	13	13	5.4	15	13	13	"	"	"	"	"	"	"	10 1/2 whole																																																																																																			
B "	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"																																																																																																			
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Sheer P "	14.4	16	11	11	14.4	16	11	11	"	"	"	"	"	"	"	13 1/2																																																																																																			
DOUBLING OF PLATE KEEL	F.K. Ch. & Partboards increased in thickness. Doubled at Bridge ends																																																																																																																		
Length and thickness of Sheerstrakes	8x7																																																																																																																		
POOP SIDES	8x7																																																																																																																		
BRIDGE SIDES	8x7																																																																																																																		
FORECASTLE SIDES	8x7																																																																																																																		
<p>Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &amp;c.?</p> <p>Mild Steel: Forman Long &amp; Co. Durham</p> <p>Iron: J.W. Hill &amp; Co. Stockton</p> <p>Has the Steel been tested as required by the Rules? <i>yes</i></p>																																																																																																																			
<p>Upper Deck Butts, riveted for quadruple length amidship. Stringer Plate <i>overlapped for whole length</i></p> <p>Middle Deck Butts, treble riveted for <i>whole length</i> amidship. Stringer Plate <i>overlapped for whole length</i></p> <p>Butts of Bilge &amp; Side Stringers <i>treble riveted</i></p> <p>Inner Bottom Plating, riveting of Edges <i>double</i> Butts <i>double</i></p> <p>Centre Girder Butts, <i>treble riveted</i></p> <p>Frames, riveted through Plates with <i>7/8</i> in. Rivets, about <i>6</i> apart.</p> <p>Rivets, state whether Iron or Steel <i>Iron rivets</i></p>																																																																																																																			
<p>FRAMES extend in one length from <i>tank sides</i> to <i>funnel</i>.</p> <p>REVERSED FRAMES on floors <i>are double in engine &amp; boiler space; flanged at other parts. Bulk angle framing above tank sides.</i></p>																																																																																																																			
MASTS, SPARS, &c.																																																																																																																			
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<p>Topmasts, Yards and Remainder of Spars <i>Topmast &amp; booms, pitch pine; no yards.</i></p> <p>Rigging, Material and Size, Shrouds <i>13. Charcoal iron wire, 3/4" 4" Stays 13. Charcoal iron wire, 3/4" 4"</i></p> <p>Sails. <i>One. Suit of fore &amp; aft. Sails, iron wire.</i></p>																																																																																																																			
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<p>Boats <i>Two life &amp; two others. J. L. M. pump, connected to hold engine.</i></p> <p>Pumps, Number <i>as per approved plan.</i> Diameter of Barrel <i>6 in.</i> State whether they are in efficient working order <i>yes</i></p> <p>Windlass is <i>Clarke, Chapman &amp; Coys.</i></p> <p>Engine Room Skylights. How constructed? <i>Teak head, on iron casing, 7 ft above B. deck.</i></p> <p>What arrangements for deadlights in bad weather? <i>Thick glass bulbs, in solid teak lids.</i></p> <p>Coal Bunker Openings. How constructed? <i>Plate coamings. 30 ins. ab. dk. Hatches, if strong and efficient? 3' solid M.P.</i></p> <p>Number of Scuppers, and numbers and dimensions of Freeing Ports, &amp;c. <i>See sketch. 30 x 15 &amp; four p.p. scuppers.</i></p> <p>Ceiling in Holds, thickness and material <i>2 1/2" R.P.</i> Ceiling tween Decks, thickness and material <i>2" M.P. sparring.</i></p> <p>Cargo Hatchways. How formed? <i>Plate coamings. 30 ins. ab. dk. Hatches, if strong and efficient? 3' solid M.P.</i></p> <p>State size No. 1 Hatch (Forward) <i>18' 8" x 16'.</i> No. 2 Hatch <i>20' 8" x 16'.</i> No. 3 Hatch <i>20' 8" x 16'.</i> No. 4 Hatch <i>20' 8" x 16'.</i></p> <p>Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch <i>Deep web plate &amp; three fore &amp; afters in each hatchway.</i></p> <p>Bulwarks, height above deck and description <i>3.6 high. 7 1/2" plating.</i> Main Rail, material and size <i>6 in. bulk angle.</i></p> <p>The above is a correct description.</p> <p>Builder's Signature <i>Perk. Mills</i> Surveyor's Signature <i>C.R. Burney</i></p>																																																																																																																			

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

1898. 11<sup>th</sup> Nov. M. 11<sup>th</sup> Nov. M. 13<sup>th</sup> Dec. M. 28<sup>th</sup> Dec. M. 1899. 28<sup>th</sup> Apr. E. *Freeboard.*

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed.*

Is the riveted work properly closed? *yes.*

Are the liners between the frames 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 plating? *no*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes.*

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *yes.* State results of tests *satisfactory.*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *yes.* State results of tests *satisfactory.*

General Remarks (State quality of workmanship, &c.)

*The workmanship is good; and the vessel has been constructed in accordance with the approved plans of in number, which together with the Reports on the forgings and castings, are attached hereto. The tunnel has been tested with a strong force of water from hose, and found satisfactory. Fore peak tested by filling with water to load line height also satisfactory.*

*This vessel when being taken from the Shipyard to Madaleno to receive machinery, grounded on the South Gore at mouth of Rio Tees. The vessel is recommended to be examined in dry dock.*

*See W. & A. Repair Rpt No. 11068. Forwarded on the 19<sup>th</sup> Inst.*

*{ A No. 247 (building) similar; but with all erections modified. }*

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *40* ft., R.Q.D. or Break *ft.* Bridge Dk. *112* ft., F'castle *34* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *2 Dks (Stl.) & web fins.*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Portland Cement & Paint* Outside *Paint.*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. *Cellular.*

Where fitted.	Length.		Water Capacity.	Where fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft.	118 3/4	301.		Fore peak tank.			
Double bottom, under Engines and Boilers.	43 3/4	156.		After peak tank.			33.
Double bottom, if under Engines only.				Midship deep tank.			
Double bottom, if under Boilers only.				Other tanks, if fitted.			
Double bottom, forward.	141 3/4	418.		(If necessary, furnish further information by sketch.)			

\* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules *yes.*

Order for Special Survey No. *1749*

Date *14<sup>th</sup> Dec. 1899*

No. *245* in builder's yard.

Dates of Surveys held while building

1899. Apr. 13. 17. 20. 24. 28. May 9. 15. 18. 25. 30. 31. June 1. 6. 12. 15. 19. 21. 26. 28. July 1. 3. 5. 8. 11. 14. 18. 21. 24. 26. 28. Aug. 2. 4. 10. 16. 18. 22. 23. 24. 25. 28. 29. 31. Sept. 1. 5. 8. 11. 15. 18. 19. 20. 21. 22. 26. 28. 29. Oct. 2. 7. 11. 25. 26. Nov. 4. 6. 8. 10. 17. 22. 28. Dec. 4. 12. 14. 16. 18. 19.

Total No. of Visits *274*

The amount of Entry Fee. £ *5*

Special Survey Fee. £ *137*

Travelling Expenses, if any £

Fees applied for, *22. 12. 1899*

Received by me, *22. 12. 1899*

State whether the Vessel has been built under Special Survey *yes*

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

With or without Freeboard, as condition of Class *when steam in dry dock*

Committee's Minute *25 DEC 1899*

Character assigned *100A1 (Steel)*

+ L.M.C. 12. 99

Signature *C.R. Burney*

Surveyor to Lloyd's Register of British and Foreign Shipping.