

No. 11697. 45%

OCT 31 1991

Tonnage under	3762.35
Tonnage Deck..}	
Do. between Tonnage Dk.	✓
and 3rd, 4th, Spar or	
Awinig Dk. }	
Total under Upper Dk.	✓
Do. of Boop	5.42
Do. of Bridge House	52.28
Do. of Forecasts	88.21
Do. of Houses on Deck	44.13
Do. of excess of Hatchways	74.14
Do. above Crown of }	
Engine Room .. }	
Gross Tonnage	4026.53
ess Crew Space	79.44
ess above Crown of }	
Engine Room .. }	
ONNAGE FOR FEES..	3872.95
ess Engine Room	1288.49
ess Navigation Spaces	46.18

CLASS 100A1

Year of Appointment	(1) As Master in service of owner of present vessel:—18	(2) As Master of this vessel:—18

Built at *West Hartlepool*
When built *1901* Launched *14th Sept 1901*
By whom built *Irvine's S.B. & Dry Dock Co Ltd*
Owners *Birmingham Steamship Co Ltd*
Managers *David G. Jones & Co*
(Where necessary to be entered in Reg. Book.)
Residence *Cardiff*
Port belonging to *Cardiff*
& Irvine

(Where necessary to be entered in Reg. Book.)

Residence Cardiff

Port belonging to Cardiff

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck as per Rule.	Feet. 343	Inches. 2	BREADTH — Moulded .	Feet. 47	Inches. 7	DEPTH , top of Floors to Spar on Deck . Dk. Beams Do. do. Main Deck Beams	Feet. 27 17	Inches. 8 8	Power of Engines	Horse.	No. of Decks with flat laid One No. of Tiers of Beams Two
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Dimensions of Ship per Register, Length 345.0 breadth 47.9 depth 27.6 Spar or Awn. Dk. _____ Moulded depth, ft. 22 ins. 11 To Main Dk. _____ Round up of _____
Main Deck _____ Beam, Main Dk. Straight

FRAMING.		Inches in Ship.		Inches in Ship.		Inches in Ship.		Inches per Rule Or a		Inches per Rule Or a		Inches per Rule Or a		FORGINGS AND CASTINGS.		Inches in Ship.		Inches per Rule Or a		Inches per Rule Or a	
FRAME, Angles, or Bars for length amidships in fore & aft space		6	3 1/2	10-9	6	3 1/2	10-9	KEEL, Bar or Side Plates, depth and thickness		11 x 2 3/4		11 x 2 3/4		STEM, moulding and thickness		11 x 2 3/4		11 x 2 3/4			
Do. for at each end		5 1/2	3 1/2	7	5 1/2	3 1/2	7	STERN-POST for Rudder do. do.		11 x 6 1/2		11 x 6 1/2		" " for Propeller		11 x 6 1/2		11 x 6 1/2			
Do. in way of Double Bottoms at intermdt. Bkts.		3 1/2	3 1/2	8-7	3 1/2	3 1/2	8-7	MAIN PIECE of Rudder, diameter at head		9		9		do. at heel		6 1/4		6 1/4			
Distance of Frames from moulding edge to moulding edge, all fore and aft		24			24			RUDDER, how constructed		built forging single plate				Can the Rudder be unshipped afloat?		yes					
REVERSED FRAME, Angles		6 1/2	3 1/2	10-9	6 1/2	3 1/2	10-9	KEELSONS AND STRINGERS.		Inches in Ship.		Inches in Ship.		Inches in Ship.		Inches per Rule Or a		Inches per Rule Or a		Inches per Rule Or a	
DEEP FRAMING, depth of girder		4 1/2			4 1/2			CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate		Cellular double bottom											
FLOORS, depth and thickness of Floor Plate at mid line for length amidships		6 7/16	8 1/16	8 7/16	6 7/16	8 1/16	8 7/16	" Rider Plate													
" in way of Engines and Boilers								" Bulb Plate to Intercoastal Keelson													
" thickness at the ends of vessel								" Horizontal Plates on Floors													
" depth at 1/3 the half b'dth. as per Rule								" Angles													
" height extended at the Bilges								SIDE KEELSON, Angles													
FLOORS & BRACKETS, in Cell Dble Bottoms		4-2		8	4-2		8	" Bulb or Plate above floors, for length													
" Distance apart		24			24			" Intercoastal Plate, for length													
CENTRE GIRDER, in Double bottom, depth and thickness		4-2		12-8	4-2		12-8	" Attached to outside plating with Angle													
" Angles, Top		4	4	9-8	4	4	9-8	BILGE KEELSON, Angles													
" " Bottom		5	5	10-9	5	5	10-9	" Bulb or Plate above floors, for length													
SIDE GIRDERS, number and thickness		Two		8	Two		8	" Intercoastal Plate, for length													
" Angles		3 1/2	3 1/2	8	3 1/2	3 1/2	8	" Attached to outside plating with Angle													
MARGIN PLATE, depth (exclusive of flange) and thickness		36		9	36		9	BILGE STRINGER Angles													
" Angles		4	4	9	4	4	9	" Bulb Plate, for length		3 side stringers as under											
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake		36		10-8	36		10-8	" Intercoastal Plate, for length													
" thickness in Engine and Boiler space		8 10/32	8 10/32	8 10/32	8 10/32	8 10/32	8 10/32	" Attached to outside plating with Angle													
" Remainder in Holds		8 1/2	3	11-10	8 1/2	3	11-10	SIDE STRINGER Angles													
BEAMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		8 1/2	3	11-10	8 1/2	3	11-10	" Bulb or Intercoastal Plate, for whole length													
" Angles on upper edge								" Attached to outside plating with Angle													
" Average space		24			24			The side stringers angles in both spaces and not 2-3 holds being rolled slightly from the stringer plates which increases to 10% of compensation													
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		11	6 1/2	11	11	6	11	Spar, or Awning Deck Stringer Plates, breadth and thickness		4-9 4-2 11-8 4-9 4-2 11-8		4-5 4-5 11-10 4-5 4-5 11-10		4-4 4-4 9-8 4-4 4-4 9-8		increased 9-16 increased 9-16					
" Angles on upper edge								" Angles on ditto													
" Average space		48			48			" Tie Plates, fore and aft, outside Hatchways													
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb								" Diagonal Tie Plates, No. of p's													
" Angles on upper edge								" Deck, * Iron & Steel, for whole length		7-6 7-6 11-8 7-6 7-6 11-8		7-6 7-6 11-8 7-6 7-6 11-8		7-6 7-6 11-8 7-6 7-6 11-8		7-6 7-6 11-8 7-6 7-6 11-8					
" Average space								" Wood Deck, Material and thickness													
BEAMS, Hold, or Orlop, Plate or Tee Bulb								Main Deck Stringer Plate, breadth & thickness													
" Angles on upper edge								" Angles on ditto, No. 2													
" Average space								" Tie Plates, outside Hatchways at centre													
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb		6	3	8	6	3	8	" Diagonal Tie Plates, No. of p's													
" Angles on upper edge								" Deck, * Iron or Steel, for length													
" Average space								" Wood Deck, Material and thickness													
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb		6	3	8	6	3	8	Lower Deck Stringer Plates, breadth & thickness													
" Angles on upper edge								" Angles on ditto, No.													
" Average space		24			24			" Tie Plates, outside Hatchways													
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb		9	5 1/2	9	9	5 1/2	9	" Deck, * Material and thickness													
" Angles on upper edge								Hold, or Orlop Stringer Plate, breadth & thickness													
" Average space		48			48			" Angles on ditto, No.													
PILLARS, In Fore Body, No. and spacing		5-16	iron grain division					" Tie Plates, outside Hatchways													
" Hold		2 3/4		8ft	2 3/4		8ft	" Deck, * Material and thickness													
" Quarter, 'tween Dks., " "		4		8ft	4		8ft	" Deck, Material and thickness													
" in Hold								Poop Deck Stringer Plate, breadth & thickness		iron 2 1/2 2 1/2 8 3 1/2 3 1/2		4 1/6 4 1/6 8 3 1/2 3 1/2		6 1/6 6 1/6 8 3 1/2 3 1/2		8 3 1/2 8 3 1/2					
WEB FRAMES, In Fore Body, No. and spacing		Three		Three				" Angles on ditto													
" No. of Side Stringers		Three		Three				" Tie Plates													
WEB FRAMES, In E. & B. Space, No. & spacing		Two	7-8 frames	Two	7-8 frames			" Deck, Material and thickness													
" brdth. & thickness		23	8	23	8			" Angle on ditto													
WEB FRAMES, In After Body, No. and spacing								" Tie Plates													
" brdth. & thickness								" Deck, Material and thickness													
" No. of Side Stringers		Three		Three				Forecastle Deck Stringer Plate, breadth & thickness		iron 3 1/2 3 1/2 8 3 1/2 3 1/2		4 1/6 4 1/6 8 3 1/2 3 1/2		6 1/6 6 1/6 8 3 1/2 3 1/2		8 3 1/2 8 3 1/2					
" Size of Angles or Tee Bars to Web Frames		6	4 12	6	4 12			" Angle on ditto													
BRACKET PLATES to Stringers between Web Frames, depth and thickness								" Tie Plates													
								" Deck, Material and thickness													

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.					Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
	Inches.	16ths or 20ths.	16ths or 20ths.	16ths or 20ths.	Inches.	16ths or 20ths.					Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Feet.	
FLAT PLATE KEEL	48	20	13	13	48	20-13	Double	6	1	4	Treble	1	3 1/2	19	double 14-13	13 1/2-9 whole			
GARBOARD or A Strake	54	14	12	12	54	14-12		5 1/4	1/8	3 1/2	4 1/4 3/4	1/8	3 1/2			12-9			
B "		11	9	9		11-9													
C "		11	9	9		11-9													
D "		11	9	9		11-9													
E "		12	9	9		12-9													
F "		12	9	9		12-9													
G "		12	9	9		12-9													
H "		12	9	9		12-9													
J "		12	9	9		12-9													
K "		12	9	9		12-9													
L "	54 1/2	12	9	9		12-9		6	1	4									
M "		12	9	9		12-9													
N "	44	15	10	10	44	15-10						1	3 1/2			14-9			
O "	Boss plates and plates above and below same 3/8 thicker than midship thickness																		
P "																			
Q "																			
DOUBLING of Flat Plate Keel	Keel plate garboards & C's increased in thickness for 1/2 L																		
Length and thickness of Bilges	Doubled at bridge ends. Spar deck stringer																		
Length and thickness of Sheerstrakes	Bridge side, spar deck sheerstrake & plate below increased in thickness																		
Length and thickness of Strake below																			
POOP SIDES				7		7													
BRIDGE SIDES		8-9				8-9													
FORECASTLE SIDES				7		7													

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, &c. *Mild steel*

Steel: *South Durham Steel & Iron Co Ltd. Palmers*

Iron: *South Durham Steel & Iron Co Ltd*

Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *✓*

Inner Bottom Plating, riveting of Edges *centre, outstrake Butts double*

Centre Girder Butts, *treble* riveted *Keelson Butts, ✓* riveted.

Frames, riveted through Plates with *7/8* in. Rivets, about *6"* apart.

Rivets, state whether Iron or Steel *iron*

FRAMES extend in one length from *middle line* to *tank margin thence to spar deck bridge and forecastle decks*

REVERSED FRAMES on floors and frames extend *from* all to *spar deck, double on floors in engine and boiler space alternately to forecastle deck.*

MASTS, SPARS, &C.											
	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS....	Fore	53-6	21 x 1/20	17 x 1/20		15 x 1/20	Two			single	treble
	Main	54-6									
	Mizen										

Bowsprit

Topmasts, Yards and Remainder of Spars *fitch pine*

Rigging, Material and Size, Shrouds *8/16 galvanized iron wire 3 1/2*

Sails. *one* Suit of *four & aft* Stays *4"*

Sails, and the following spare sails

EQUIPMENT No. 38384 LETTER W ANCHORS.																
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQ. BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.			
232	1st Bower	50	1	14	wrought iron	42	12	0	21	50	0	0	Taylor Pat. Stockless	S. Taylor & Sons	Sunderland 5/9/01 H.T. Welford	
231	2nd "	50	0	0	head.	42	7	2	0	50	0	0	"	"	"	
22191	3rd "	42	2	21	"	37	11	3	14	42	2	0	"	"	Tipton 3/6/01 B.E. Perrins	
	Collective weight	143	0	7		142				142	2	0				
22693	Stream	12	1	22	3 0 6	14	4	0	7	12	0	0	Common	S. Hartthorne & Co Tipton	9/10/01 B.E. Perrins	
22692	Kedge	6	0	0	1 2 16	8	5	0	0	6	0	0	"	"	"	
	2nd Kedge															

CHAIN CABLES.												HAWSERS AND WARPS.							
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.					
				Supplied.	Per Rule.														
22336	270	2 1/16	76 1/2 10 1/10	581.0-26	573.2-14	270 x 2 1/16	Steel link	S. Hartthorne & Co	Tipton 10/10/01 B.E. Perrins	TOWLINE	Steel wire	120	1 1/2	39	120 x 1 1/2				
										HAWSER	"	90	3/4	22	90 x 3/4				
										WARP	Manilla	200	3	18	90 x 3/4				
	90	1 1/2	39			90 x 1 1/2	Steel wire	Brilliant & Co Ltd	Cert by Brilliant & Co Ltd 15/6/01	Certificates of steel wire by the following rope makers									

Boats *Two lifeboats and two others*

Pumps, Number *as per approved plan*

Windlass is *Kemerton Walker & Thompson Bros Ltd*

Engine Room Skylights.—How constructed? *of steel plate with wood flaps on casing 7 1/2 feet above bridge deck*

What arrangements for deadlights in bad weather? *glass bells eyes oil wood cover*

Coal Bunker Openings.—How constructed? *plate coamings* How are lids secured? *by bars & tarpaulins* Height above deck? *21 above bridge deck*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *9 scuppers, 7 freeing ports 30 x 18 on each side*

Ceiling in Holds, thickness and material *2 1/2" w.p.* Ceiling 'tween Decks, thickness and material *2" w.p.*

Cargo Hatchways.—How formed? *steel plate coamings* Hatches, If strong and efficient? *yes*

State size No. 1 Hatch (Forward) *24 x 16'* No. 2 Hatch *24 x 16'* No. 3 Hatch *10 x 11'* No. 4 Hatch *24 x 16'* No. 5 *24 x 16'*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Two web plates and three steel fore & afters in Nos 1, 2, 4 & 5 hatchways*

No. of Breasthooks *5 and 4 on floor* No. of Crutches *3 and 4 on floor*

Bulwarks, height above deck and description *4'-3" of 1/4" plate* Main Rail, material and size *bull angle 6 x 3*

The above is a correct description

Builder's Signature (here only) *J. H. Irvine* Secretary.

Surveyor's Signature *P. Bennett* Surveyor to Lloyd's Register of British & Foreign Shipping.

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

17th August 1900 "m" 4th Dec^r 1900 "E" Freeboard 1st October 1901 "m"

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

to plate, &c., conform well to each other? yes

from the faying surfaces? yes

Do any rivets break into or through the seams or butts of plating? a few

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

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

The workmanship is good and the vessel has been built in accordance with the approved plans (9 in no) which together with the Forgings Report are attached hereto. The collision bulkhead has been tested by filling the fore peak with water to height of load line. Tunnel and weather decks have been tested with water from hose and found satisfactory. Vessel placed in dry dock before completion, bottom cleaned examined and recoated.

This is a sister vessel to SS "Austriana" Wtfl Report No. 11665

Drawings

Midship Section

Profile

Main Deck Plan

Painting Arrangements

Sections for do

Connection at Tank Side

Strengthening of Bottom Forward

Pumping Arrangements

Intercoastal Siders under Engines

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31 ft., R.C.D. or Break ✓ ft., Bridge Dk. 100 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) Spar dk (ft 2m ft 8ft) 2 tiers & deep framing

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 yes

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	112	308	Fore peak tank,	✓	✓
Double bottom, forward,	148	442	After peak tank,	✓	101
Double bottom, under Engines and Boilers,	36	126	Midship deep tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Other tanks, if fitted,	✓	✓
Double bottom, if under Boilers only,	✓	✓	(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules. yes

Order for Special Survey No. 1876

Date 22nd Aug 1901

Order for Ordinary Survey No. ✓

Date ✓

No. 121 in builder's yard

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
- 2nd. On the plating during the process of riveting
- 3rd. When the beams were in and fastened, and before the decks were laid
- 4th. When the ship was complete, and before the plating was finally coated or cemented
- 5th. After the ship was launched and equipped

1901. Apr. 13. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. May 3. 7. 8. 9. 11. 14. 17. 20. 22. 23. 24. 25. June 1. 5. 6. 11. 17. 19. 20. 21. 24. 26. 28. July 1. 3. 4. 6. 8. 10. 12. 13. 15. 16. 17. 18. 19. 20. 22. 23. 24. 25. 27. 29. Aug 3. 12. 13. 14. 16. 17. 19. 20. 21. 22. 26. 28. Sept 3. 4. 5. 6. 7. 9. 12. 13. 18. 19. 21. 24. Oct 5. 7. 8. 10. 11. 12. 14. 16. 17. 18.

Total No. of Visits 93

The amount of Entry Fee £ 5: :
Special Survey Fee £ 121: 16: 6
Travelling Expenses, if any £ : :
1000A1 Spar deck

Fees applied for, 29. 10. 18. 901
Received by me, 1. 11. 18. 901

Certificate to be sent to W. Hartlepool

J. Bennett

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

I am of opinion this Vessel should be Classed With, or without Freeboard, as condition of Class

Committee's Minute FRI. NOV 1 1901

Character assigned

100A1 Steel
Spar dk
W. fbd. 5.6. 1/2
+ 2 m c 10. 01