

2 Dks., ~~IRON~~ ~~OR~~ ~~STEEL~~ ~~STEAMER~~,
and Pt. Awing. Dk.

IRON OR STEEL STEAMER.

No. 20985

1221

Received at London Office JULY 8 JUL 1902

State if Report is also sent on the Machinery of the Vessel *Yes*
Date of completion of Report *July 1902* Port of *Sunderland*
Date, First Survey *29th Oct 1901* Last Survey *24th June 1902*
Rig *Fore & aft schooner*

Survey held at *Sunderland*
On the *Steel Screw Steamer "Alto"*
TONNAGE under Tonnage Deck *1900.32*
Do. of Forecastle *35.44*
Do. of Houses on Deck *62.39*
Do. of excess of Hatchways *28.78*
Do. above Crown of Engine Room *2026.93*
Gross Tonnage *60.57*
Less Crew Space *1966.36*
Engine Room *648.62*
Navigation Spaces *24.12*
Master Tonnage *1293.62*
out on Beam ..

ONE OR TWO DECKED VESSEL.
CLASS *+ 100 A.*

Master *E. W. Evans*
Year of appointment *(1) As master in service of owner of present vessel: 1898 (2) As master of this vessel: 1902*
Built at *Sunderland*
When built *1902* Launched *24th May 1902*
By whom built *S. P. Austin & Son Ltd.*
Owners *The Pelton S.S. Co. Ltd.*
Managers *R. S. Gardiner & J. Reay*
(Where necessary to be entered in Reg. Book).
Residence *Lombard St. Newcastle-on-Tyne*
Port belonging to *Newcastle*
Built under *Special Survey*

Length on Deck as per Rule *286* Feet. *9* Inches. BREADTH—Moulded *42* Feet. *10* Inches. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams *18* Feet. *8 1/2* Inches. No. of Decks with Flat laid *One*
No. of Tiers of Beams *One & deep frame*
Dimensions of Ship per Register, Length, *289.0* breadth, *43.1* depth, *18.70* Moulded Depth, *21* ft. *2 1/2* ins. Round of Beam, Actual *10 1/2* ins.

FRAMING.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appr.	Inches per Rule Or as Appr.	20ths per Rule Or as Appr.
NAME, Angle, Bars, for 1/2 length amidships		8	3 1/2	11	8	3 1/2	11
Do. for 1/2 at each end		8	3 1/2	10	8	3 1/2	10
Do. in way of Double Bottoms at Solid Floors		3 1/2	3 1/2	8	3 1/2	3 1/2	8
" " at intermdt. Bkts.		5	3 1/2	8	5	3 1/2	8
ing of Frames from centre to centre			24			24	
VERSED FRAME, Angles	<i>Bulb angle framing</i>						
EP FRAMING, depth of girder			8			8	
DOORS, depth and thickness of Floor Plate		40		7	40		7
" " in way of Engines and Boilers			7 1/8			7 1/8	
" " thickness at the ends of vessel			8			8	
" " depth at 1/2 the half breadth, as per Rule	<i>Floors on alternate frames</i>						
" " height extended at the Bilge	<i>except under engine & before 3/5 length</i>						
DOORS & BRACKETS, in Cell Dble Bottoms			7			7	
" " state if flanged (top & bottom)		No		No			
" " Spacing		48		48			
NTRE GIRDER, in Double Bottom, depth and thickness		40	10.8	40	10.8		
" " Angles, Top		4	4	9	4	4	9
" " Bottom		6	4	9	6	4	9
DE GIRDERS, number on each side & thickness	<i>each side 7</i>						
" " state if flanged (top & bottom)		No		No			
" " Angles		3 1/2	3 1/2	7	3 1/2	3 1/2	7
RGIN PLATE, depth (exclusive of flange) and thickness		36		9	30		9
" " Angles to Outside Plating		3 1/2	3 1/2	8	3 1/2	3 1/2	8
" " Floors		3 1/2	3 1/2	7	3 1/2	3 1/2	7
" " Height of Floor at the Bilges		60		8	60		8
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake		36		9	36		9
" " thickness in Engine and Boiler space			7 1/6	7 1/6		7 1/6	7 1/6
" " Remainder in Holds			8			8	
AMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		7 1/2	3	10	7 1/2	3	10
" " Angles on Upper Edge		8	8	10	8	8	10
" " Spacing			24			24	
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							
" " Angles on Upper Edge							
" " Spacing							
AMS, Hold, Plate or Tee Bulb	<i>Deep BA framing in line</i>						
" " Angles on Upper Edge							
" " Spacing							
AMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb		5 1/2	3	8	5 1/2	3	8
" " Angles on Upper Edge							
" " Spacing			24			24	
AMS, Bridge or Pt. Awing. Deck, Angle, Bulb Angle, Plate or Tee Bulb		5 1/2	3	8	5 1/2	3	8
" " Angles on Upper Edge		9	3 1/2	13	9	3 1/2	13
" " Spacing			24			24	
AMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb		5 1/2	3	8	5 1/2	3	8
" " Angles on Upper Edge		7	3	9	7	3	9
" " Spacing							
LARS, in two Decks, Size and Spacing	<i>2 1/4 apart</i>						
" " Hold		4		48	4		48
" " Quarter, tween Dks.,							
" " in Hold							
WEB FRAMES, In Fore Body, No. and Spacing							
" " No. of Side Stringers							
WEB FRAMES, In E. & B. Space, No. & Spacing	<i>One</i>						
" " Brdth. & Thickness		24		8	24		8
WEB FRAMES, In After Body, No. and Spacing							
" " No. of Side Stringers							
" " Size of Angle on Tee Bars to Web Frames		6	3 1/2	10	6	3 1/2	10
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness							

FORGINGS AND CASTINGS.		Inches in Ship.		Inches per Rule. Or as Approved.						
KEEL, Bar or Side Plates depth and thickness		Flat Plate Keel.								
STEM, moulding and thickness		10 x 2 3/8		10 x 2 3/8						
STERN-POST for Rudder do. do.		10 x 6		10 x 6						
" for Propeller		10 x 6		10 x 6						
MAIN PIECE of Rudder, diameter at head		7 3/4		7 3/4						
do. at heel		5 3/4		5 3/4						
RUDDER, how constructed	Forged & built with single plate									
Can the Rudder be unshipped afloat?	Yes									
KEELSONS AND STRINGERS.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule			
CENTRE LINE KEELSON, Vertical Plate above floor, Through Plate, or Intercoastal Plate										
" Bulb Plate										
" Bulb Plate to Intercoastal Keelson										
" Horizontal Plates on Floors										
" Angles										
SIDE KEELSON, Angles										
" Bulb or Plate above floor for	length									
" Intercoastal Plate for	length									
" Attached to outside plating with Angle										
BILGE KEELSON, Angles										
" Bulb or Plate above floor for	135' lng.	8		8	8		8			
" Intercoastal Plate for	length									
" Attached to outside plating with Angle		7	6	3 1/2	8	6	3 1/2 8			
BILGE STRINGER, Angles										
" Bulb Plate for	length									
" Intercoastal Plate for	length									
" Attached to outside plating with Angle										
3SIDE STRINGERS, Angles	2 Bulb Angles	10	3 1/2	12-12	10	3 1/2	13-12			
" Bulb or Intercoastal Plate for	full lng.	18		10-9	18		10-9			
" Attached to outside plating with Angle		3 1/2	3 1/2	9-8	3 1/2	3 1/2	9-8			
Main and Raised Quarter Deck Stringer Plate, breadth and thickness		41		10	41		10			
" Angle on ditto		4 1/2 x 4 1/2		10	4 1/2 x 4 1/2		10			
" Tie Plates, outside Hatchways		3 1/2 x 3 1/2		10	3 1/2 x 3 1/2		10			
" Diagonal Tie Plates on Deck, No. of Pairs										
" Main Dk. Iron or Steel for	full lng.			7-6			7-6			
" R. Q. Dk. Iron or Steel for	length									
" Wood Deck, Material & thickness		No wood deck laid								
Lower Deck Stringer Plate, breadth and thickness										
" Angles on ditto, No.										
" Tie Plates, outside Hatchways										
" Deck Material and thickness										
Hold Stringer Plate		Deep BA Framing in line								
" Angles on ditto, No.										
Poop Deck Stringer Plate, breadth & thickness		33		7	33		7			
" Angle on ditto		3 1/2 x 3		7	3 1/2 x 3		7			
" Tie Plates										
" Deck, Material and thickness	Steel			6			6			
Bridge or Pt. Awning Deck Stringer Plate, breadth and thickness		36		8	36		8			
" Angle on ditto		3 1/2 x 3 1/2		8	3 1/2 x 3 1/2		8			
" Tie Plates										
" Deck, Material and thickness	Steel			6			6			
Forecastle Deck Stringer Plate, breadth & thickness				67			67			
" Angle on ditto		3 1/2 x 3		7	3 1/2 x 3		7			
" Tie Plates		Sheathed with pine 5 x 3								
" Deck, Material and thickness	Steel			67			67			
* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.										
BULKHEADS.		Number.		STIFFENERS.				Single or Double Frames.		Height up.
		In Vessel.	Per Rule.	Thickness.	Horizontal.		Vertical.			
					Size.	Spacing.	Size.	Spacing.		
					Inches.	Inches.	Inches.	Inches.		
W.T. BULKHEADS		5	5	7-6	8 x 3 1/2	48	5 x 3 1/2	30	Dll Main	
PARTITION		Additionally stiffened with semi box								
LONGITUDINAL		beams								
Are the outside Plates doubled two spaces of Frames in length?										
Are the Stance Valves and Watertight Doors in efficient working order?										

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.
BULKHEADS. Number. Thickness. Horizontal. Vertical. Single or Double Frames. Height up.
In Vessel. Per Rule. 20ths. Size. Spacing. Size. Spacing. Inches. Inches. Inches. Inches.
W.T. BULKHEADS 5 5 7-6 8 x 3 1/2 48 5 x 3 1/2 30 Dk. Main Dk.
PARTITION " Additionally stiffened with semi box beams
LONGITUDINAL " beams
Are the outside Plates doubled two spaces of Frames in length? *Not quite*
Are the Stair Valves and Watertight Doors in efficient working order? *Yes*

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.				IF LAPPED.				
	AMIDSHIP.	FORWARD.	AFT.	AMIDSHIP.	FORWARD.	AFT.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what length.	Diam.	Spacing or to cr.	Breadth.	Thick-ness.				
FLAT PLATE KEEL	36	16	14	12	36	16	Double	6	1	4	Steel 7/8	1	3 1/2	19	20				
GARBOARD OR A Strake	49	12	11	13	49	12	5 1/2	7/8	3 1/8	Quad 7/8	3 1/8	19	20	✓	✓				
State actual thickness in way of Double Bottom.	60	11	9	12	60	11	"	"	"	"	"	✓	✓	✓	✓				
B "	46	11	9	9	46	11	"	"	"	"	"	✓	✓	✓	✓				
C "	54	11	9	12	54	11	"	"	"	"	"	✓	✓	✓	✓				
D "	42	12	10	12	42	12	"	"	"	"	"	✓	✓	✓	✓				
E "	46	12	10	12	46	12	"	"	"	"	"	✓	✓	✓	✓				
F "	46	11	9	9	46	11	"	"	"	"	"	✓	✓	✓	✓				
G "	54	11	9	9	54	11	"	"	"	"	"	✓	✓	✓	✓				
H "	46	11	9	9	46	11	"	"	"	"	"	✓	✓	✓	✓				
I "	54	11	9	9	54	11	"	"	"	"	"	✓	✓	✓	✓				
J "	46	11	9	9	46	11	"	"	"	"	"	✓	✓	✓	✓				
K "	54	13	9	9	54	13	"	6	1	4	"	✓	✓	✓	✓				
L "	43	15	10	10	43	15	Double at Bridge Ends for 20'0	"	"	"	"	1	3 1/2	19	20				
M "																			
N "																			
O "																			
P "																			
Length and thickness of Sheerstrake	at Bridge Ends 22'4" x 32' x 1 1/2"																		
POOP SIDES	7/20				7/20														
BRIDGE SIDES	7/20				7/20														
FORECASTLE SIDES	7/20				7/20														
LENGTHS OF PLATING	Seven frame spaces.																		
<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, outside Plating, &c.?</p> <p>Steel Plates :- <i>Consolidated & S. Durham</i></p> <p>" Angles :- <i>Consolidated</i></p> <p>" Iron Plates :- <i>South Durham</i></p> <p>Has the Steel been tested as required by the Rules? <i>Yes</i></p>																			
<p>FRAMES extend in one length from <i>Centre Line to Margin Plate & thence to gun</i> state if ordinary or joggled <i>Ordinary</i></p> <p>REVERSED FRAMES on floors and frames extend from <i>Centre Line to Margin Plate</i> state if ordinary or joggled <i>do.</i></p> <p>(Bull Angle Frames)</p>																			
MASTS, SPARS, &c.																			
<p>LOWER MASTS... Fore <i>Steel</i> 67'0" 20 x 7/20 16 x 7/20 16 x 7/20 16 x 7/20</p> <p>Main <i>"</i> 68'0" " " " " " "</p> <p>Mizen <i>"</i> " " " " " "</p> <p>Topmasts, Yards and Remainder of Spars <i>Pine</i></p> <p>Rigging, Material and Size, Shrouds <i>Galvanized steel wire 3/2</i> Stays <i>3/2</i> Backstays <i>2 1/2</i></p> <p>Sails <i>One</i> Suit of <i>schooner</i> Sails and the following spare sails</p> <p>Equipment No. <i>25408</i> Letter <i>S</i> * <i>Mechanical</i> 29.11.01</p> <p>ANCHORS. <i>14.4.02</i> 18.4.02.</p>																			
<p>Number of Certificate. Anchors. WEIGHT, EX STOCK. WEIGHT OF STOCK. TEST, PER CERTIFICATE. WEIGHT REQUIRED BY TABLE 22. Description of Anchor. Makers. Where and when tested and Superintendent.</p> <p>1312 1st Bower * 41 3 21 37 2 2 0 40 0 0 <i>Bull Dog</i> <i>Not stated</i> I.P.H.S. 7.3.02 H.J. 7/2</p> <p>1526 2nd " * 38 3 7 " " 35 0 3 21 40 0 0 " " " " 18.4.02 " "</p> <p>1539 3rd " * 34 2 14 " " 32 1 3 14 34 0 0 " " " " 12.4.02 " "</p> <p>1439 Stream <i>115</i> 1 14 " " " " 114 0 0 " " " " " " " "</p> <p>16 Kedge <i>10</i> 3 0 2 2 21 12 13 0 14 10 2 0 <i>Rodgers' Pat</i> <i>Not stated</i> " " " " 2.4.02 " "</p>																			
CHAIN CABLES.																			
<p>Number of Certificate. Length and size supplied. Test per Certificate. WEIGHT OF CHAIN CABLE. Length and size per Table 22. Description. Makers of Cables. When and where tested and Superintendent. Material. Length and size supplied. Breaking Test of Steel Wire. Length and size per Table 22.</p> <p>530 225 1/2 598 82 4 382 1 22 372 3 22 13 <i>Shd</i> <i>Not stated</i> I.P.H.S. 9.4.02</p> <p>234 38 15 4 598 82 4 28 2 2 24 3 12 110 <i>Link</i> <i>Not stated</i> " " " " 10.4.02 H.J. 7/2</p> <p>Iron Stream Chain <i>75</i> 1 8 22 4 34 5 49 1 14 48 2 4 75 15 <i>Shd</i> <i>Not stated</i> " " " " 11.4.02 " "</p>																			
HAWSERS AND WARPS.																			
<p>Number of Certificate. Length and size supplied. Test per Certificate. WEIGHT OF CHAIN CABLE. Length and size per Table 22. Description. Makers of Cables. When and where tested and Superintendent. Material. Length and size supplied. Breaking Test of Steel Wire. Length and size per Table 22.</p> <p>530 225 1/2 598 82 4 382 1 22 372 3 22 13 <i>Shd</i> <i>Not stated</i> I.P.H.S. 9.4.02</p> <p>234 38 15 4 598 82 4 28 2 2 24 3 12 110 <i>Link</i> <i>Not stated</i> " " " " 10.4.02 H.J. 7/2</p> <p>Iron Stream Chain <i>75</i> 1 8 22 4 34 5 49 1 14 48 2 4 75 15 <i>Shd</i> <i>Not stated</i> " " " " 11.4.02 " "</p>																			
<p>Boats <i>Two</i> Lifeboats 23'6" x one <i>Dinghy</i> 16'0"</p> <p>Pumps, Number <i>One</i> <i>Downs</i> Pump & <i>Hand pump</i> to <i>fire</i> <i>State whether they are in efficient working order</i> <i>Yes</i></p> <p>Windlass is <i>Clark Chapman & Co.</i></p> <p>Engine Room Skylights.—How constructed? <i>Steel plates & angles</i> 4'6" above Bridge Dk.</p> <p>What arrangements for deadlights in bad weather? <i>Steel plates & angles</i></p> <p>Coal Bunker Openings.—How constructed? <i>Plates & angles</i> How are lids secured? <i>By bolts & cleats</i> Height above deck <i>15"</i></p> <p>Number of Scuppers, and number and dimensions of Freeing Ports, &c. <i>8 Scuppers each side</i> <i>Freeing Ports each side</i></p> <p>Ceiling in Holds, thickness and material <i>Pine 2 1/2</i> Cargo Battens, thickness and material <i>7 x 2 Pine</i></p> <p>Cargo Hatchways.—How formed? <i>Of steel</i> <i>usual construction</i> Hatches.—If strong and efficient? <i>Yes</i></p> <p>State size No. 1 Hatch (Forward) <i>26'0" x 16'0"</i> No. 2 Hatch <i>24'0" x 16'0"</i> No. 3 Hatch <i>20'0" x 16'0"</i> No. 4 Hatch <i>20'0" x 16'0"</i></p> <p>Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch <i>1 web in No. 3 & 4 hatchways</i> <i>2 webs in No. 2 hatchway</i> <i>3 fore & afters in each hatch</i></p> <p>Bulwarks, height above deck and description <i>48 x 5/20 steel</i></p> <p>The above is a correct description <i>FOR P. AUSTIN & SON, LIMITED</i></p> <p>Builder's Signature (here only) <i>James D. H.</i> Surveyor's Signature <i>J. S. Shute</i> Stays = <i>7 1/2 x 7/20 Bull</i></p> <p>Surveyor to Lloyd's Register of British and Foreign Shipping.</p>																			

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

M—19th Aug 1901. M 18th October 1901. E 19th Nov 1901

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

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 the plating? *a very few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped *or overlapped?* *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.) *This vessel has been constructed in accordance with the approved plans, the Secretary's Letter as mentioned above & in other respects in compliance with the requirements of the Rules. The material & workmanship are good.*

The Freeboard assigned in the Secretary's Letter dated 17th June 1902 has been duly marked & navigated on the vessel's side. *Sunderland Freeboard Report No. 20965.*

This is a duplicate vessel to the SS "Huddersfield" No 208 by the same Builders. *Sunderland Report No 20005.*

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *26'7 1/2* ft., R.Q.D. or Deck *4*, Bridge Dk. *72'0* ft., F'castle *28'0* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. 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.) *1 D (S) & Deep Framing*

Official No. *114426*; Signal Letters *State if Machinery is fitted aft* *No*

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

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

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	88	187	Fore peak tank,	16	61
Double bottom, under Engines and Boilers,	30	82	After peak tank,	14	47
Double bottom, if under Engines only,			Deep tank, aft		
Double bottom, if under Boilers only,			Deep tank, forward		
Double bottom, forward,	122	306	Other tanks, if fitted		

* 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. *4369*

Date *4th Sept, 1901*

1901.—Oct 29. Nov 4. 14. 19. 24. Dec 4. 7. 23. 31. 1902.—Jan 7. 9. 13. 16. 21. 23. 24. 27. 28. 31. Feb 5. 7. 13. 19. 25. 27. Mar 4. 6. 12. 14. 19. 21. 25. Apr 3. 7. 9. 11. 14. 15. 18. 22. 25. 28. May 1. 6. 8. 13. 14. 16. 22. 23. 27. June 3. 9. 19. 21. 24.

No. *219* in builder's yard.

DATE OF SURVEY held while building

Total No. of Visits *57*

The amount of Entry Fee *4:0:0* Fees applied for, *1.7.1901*

Special *74:3:0* Received by me, *AD*

Travelling Expenses, if any £ *3.7.1901*

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

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

without Freeboard, as condition of Class

Surveyor to Lloyd's Register of British and Foreign Shipping. *J. S. Shute*

Committee's Minute *FRI. 11 JUL 1902*

Character assigned *100 A1 Steel*

Lloyd's Register

+ 2 Mc 6, 02

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