

PLATING.										RIVETING.																																																																																																																															
AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.																																																																																																																										
STRAKES.		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.		RIVETS.		RIVETS.		STRAPS.		IF LAPPED.																																																																																																																							
Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Diam.	Spacing.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.																																																																																																																						
FEAT PLATE KEEL	40	22	16	16	40	22	16	16	40	22	Double	6	1	3 1/2	19	16	13 1/2	full																																																																																																																							
GARBOARD OR A STRAKE	66	17	14	14	66	17	14	14	66	17	"	5 1/4	3/8	3/4	80	1/4	3/8	12	"																																																																																																																						
B	"	13	11	11	"	13	11	11	"	13	"	5 1/4	3/8	3/4	80	1/4	3/8	12	"																																																																																																																						
C	"	13	11	11	"	13	11	11	"	13	"	5 1/4	3/8	3/4	80	1/4	3/8	12	"																																																																																																																						
D	"	13	11	11	"	13	11	11	"	13	"	5 1/4	3/8	3/4	80	1/4	3/8	12	"																																																																																																																						
E	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
F	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
G	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
H	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
I	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
J	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
K	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
L	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
M	"	14	11	11	"	14	11	11	"	14	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
N	"	17	13	13	"	17	13	13	"	17	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
Sheer-O	46	18	13	13	46	18	13	13	46	18	"	6	1	4 1/2	80	1	3 1/2	13 1/2	"																																																																																																																						
DOUBLING OF PLATE KEEL																																																																																																																																									
Length and thickness of Sheerstrakes.	86 ft at breaks.																																																																																																																																								
POOP SIDES		14				8				14-8																																																																																																																															
BRIDGE SIDES																																																																																																																																									
FORECASTLE SIDES																																																																																																																																									
Manufacturer's name on trade mark of the <u>Union</u> Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. <u>Union Steel</u>										Upper Deck Butts, treble riveted for <u>full</u> length <u>amidship</u>																																																																																																																															
Stringer Plate Butts, treble riveted for <u>full</u> length <u>amidship</u>										Middle Deck Butts, treble riveted for <u>full</u> length <u>amidship</u>																																																																																																																															
Stringer Plate Butts, treble riveted for <u>full</u> length <u>amidship</u>										Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted <u>Double</u>																																																																																																																															
Inner Bottom Plating, riveting of Edges <u>Double</u> Butts <u>Double</u>										Centre Girder Butts, <u>Double</u> riveted <u>Keelson Butts</u> riveted.																																																																																																																															
Frames, riveted through Plates with <u>1</u> in Rivets, about <u>7</u> apart.										Rivets, state whether Iron or Steel <u>Iron</u> .																																																																																																																															
FRAMES extend in one length from <u>centre line</u> to <u>margin plate and thence to upper deck.</u>																																																																																																																																									
REVERSED FRAMES on floors and frames extend from <u>centre line to margin plate, and thence all to upper deck.</u>																																																																																																																																									
MASTS, SPARS, &c.																																																																																																																																									
<table border="1"> <thead> <tr> <th rowspan="2">Material.</th> <th rowspan="2">Total Length.</th> <th colspan="4">DIAMETER AND THICKNESS.</th> <th rowspan="2">No. of Plates in Round.</th> <th colspan="2">ANGLES.</th> <th colspan="2">RIVETING.</th> </tr> <tr> <th>At Partners.</th> <th>Heel.</th> <th>Head.</th> <th>Number.</th> <th>Size.</th> <th>Seams.</th> <th>Butts.</th> </tr> </thead> <tbody> <tr> <td>Fore</td> <td>122</td> <td>25"</td> <td>20</td> <td>21</td> <td>9 1/2</td> <td>2</td> <td>3 1/2 x 10 1/2</td> <td>Single</td> <td>Double</td> </tr> <tr> <td>Main</td> <td>101</td> <td>24"</td> <td>22 1/8</td> <td>20</td> <td>9 1/2</td> <td>2</td> <td>3 1/2 x 10 1/2</td> <td>Double</td> <td>Double</td> </tr> <tr> <td>Mizen</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																				Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in Round.	ANGLES.		RIVETING.		At Partners.	Heel.	Head.	Number.	Size.	Seams.	Butts.	Fore	122	25"	20	21	9 1/2	2	3 1/2 x 10 1/2	Single	Double	Main	101	24"	22 1/8	20	9 1/2	2	3 1/2 x 10 1/2	Double	Double	Mizen																																																																															
Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in Round.	ANGLES.		RIVETING.																																																																																																																																
		At Partners.	Heel.	Head.	Number.		Size.	Seams.	Butts.																																																																																																																																
Fore	122	25"	20	21	9 1/2	2	3 1/2 x 10 1/2	Single	Double																																																																																																																																
Main	101	24"	22 1/8	20	9 1/2	2	3 1/2 x 10 1/2	Double	Double																																																																																																																																
Mizen																																																																																																																																									
Bowsprit <u>✓</u>																																																																																																																																									
Topmasts, Yards and Remainder of Spars <u>Pitch Pine</u>																																																																																																																																									
Rigging, Material and Size, Shrouds <u>4" Steel Wire</u> Stays <u>5 1/2 Steel Wire</u>																																																																																																																																									
Sails. <u>One</u> Suit of <u>fore and aft</u> Sails, and the following spare sails <u>✓</u>																																																																																																																																									
EQUIPMENT No. <u>67810</u> LETTER <u>E.†</u> ANCHORS.																																																																																																																																									
<table border="1"> <thead> <tr> <th rowspan="2">Number of Certificate.</th> <th rowspan="2">Anchors.</th> <th colspan="2">WEIGHT, EX. STOCK.</th> <th colspan="2">WEIGHT OF STOCK.</th> <th colspan="2">TEST, PER CERTIFICATE.</th> <th colspan="2">WEIGHT REQUIRED BY TABLE 22.</th> <th rowspan="2">Description of Anchor.</th> <th rowspan="2">Makers.</th> <th rowspan="2">Where and when tested and Superintendent.</th> </tr> <tr> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> </tr> </thead> <tbody> <tr> <td>46897</td> <td>1st Bower</td> <td>88</td> <td>0</td> <td>0</td> <td>88</td> <td>0</td> <td>0</td> <td>82</td> <td>3</td> <td>0</td> <td>Halls (Cast St. Hk.)</td> <td>Wingfield & Sons, Netherthorpe 5/4/02</td> </tr> <tr> <td>46898</td> <td>2nd "</td> <td>87</td> <td>3</td> <td>16</td> <td>80</td> <td>62</td> <td>5</td> <td>0</td> <td>82</td> <td>3</td> <td>0</td> <td>"</td> <td>"</td> </tr> <tr> <td>46899</td> <td>3rd "</td> <td>88</td> <td>1</td> <td>14</td> <td>80</td> <td>62</td> <td>5</td> <td>0</td> <td>82</td> <td>3</td> <td>0</td> <td>"</td> <td>"</td> </tr> <tr> <td></td> <td>4th "</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> <td>"</td> </tr> <tr> <td></td> <td>Collective weight</td> <td>264</td> <td>1</td> <td>2</td> <td></td> <td>248</td> <td>1</td> <td>0</td> <td></td> <td></td> <td></td> <td>(Certificate for cast steel heads produced.)</td> </tr> <tr> <td>46896</td> <td>Stream</td> <td>24</td> <td>1</td> <td>4</td> <td>5</td> <td>1</td> <td>7</td> <td>24</td> <td>4</td> <td>0</td> <td>7</td> <td>Rodgers</td> <td>Wingfield & Sons, Netherthorpe 4/4/02</td> </tr> <tr> <td>46863</td> <td>Kedge</td> <td>12</td> <td>2</td> <td>11</td> <td>3</td> <td>0</td> <td>19</td> <td>14</td> <td>8</td> <td>1</td> <td>21</td> <td>"</td> <td>"</td> </tr> </tbody> </table>																				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.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	46897	1st Bower	88	0	0	88	0	0	82	3	0	Halls (Cast St. Hk.)	Wingfield & Sons, Netherthorpe 5/4/02	46898	2nd "	87	3	16	80	62	5	0	82	3	0	"	"	46899	3rd "	88	1	14	80	62	5	0	82	3	0	"	"		4th "											"	"		Collective weight	264	1	2		248	1	0				(Certificate for cast steel heads produced.)	46896	Stream	24	1	4	5	1	7	24	4	0	7	Rodgers	Wingfield & Sons, Netherthorpe 4/4/02	46863	Kedge	12	2	11	3	0	19	14	8	1	21	"	"
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.																																																																																																																													
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.				lbs.																																																																																																																												
46897	1st Bower	88	0	0	88	0	0	82	3	0	Halls (Cast St. Hk.)	Wingfield & Sons, Netherthorpe 5/4/02																																																																																																																													
46898	2nd "	87	3	16	80	62	5	0	82	3	0	"	"																																																																																																																												
46899	3rd "	88	1	14	80	62	5	0	82	3	0	"	"																																																																																																																												
	4th "											"	"																																																																																																																												
	Collective weight	264	1	2		248	1	0				(Certificate for cast steel heads produced.)																																																																																																																													
46896	Stream	24	1	4	5	1	7	24	4	0	7	Rodgers	Wingfield & Sons, Netherthorpe 4/4/02																																																																																																																												
46863	Kedge	12	2	11	3	0	19	14	8	1	21	"	"																																																																																																																												
CHAIN CABLES.																																																																																																																																									
<table border="1"> <thead> <tr> <th rowspan="2">Number of Certificate.</th> <th rowspan="2">Fathoms.</th> <th rowspan="2">Size.</th> <th colspan="2">WEIGHT OF CHAIN CABLE.</th> <th rowspan="2">Fathoms and Size per Table 22.</th> <th rowspan="2">Description.</th> <th rowspan="2">Makers of Cables.</th> <th rowspan="2">When and where tested, and Superintendent.</th> <th colspan="2">HAWERS AND WARPS.</th> </tr> <tr> <th>Supplied.</th> <th>Per Table 22.</th> <th>Material.</th> <th>Fathoms.</th> </tr> </thead> <tbody> <tr> <td>31531</td> <td>150</td> <td>2 1/8</td> <td>163</td> <td>724</td> <td>241</td> <td>17</td> <td>283</td> <td>0</td> <td>300</td> <td>2 1/8</td> <td>Steel</td> <td>Hingley & Sons, Netherthorpe 26/3/02</td> </tr> <tr> <td>31536</td> <td>150</td> <td>2 1/8</td> <td>163</td> <td>724</td> <td>241</td> <td>17</td> <td>283</td> <td>0</td> <td>300</td> <td>2 1/8</td> <td>Steel</td> <td>"</td> </tr> <tr> <td></td> <td>130</td> <td>6</td> <td>84</td> <td></td> <td></td> <td></td> <td>120</td> <td>5</td> <td>1/4</td> <td>Steel Wire</td> <td>"</td> </tr> </tbody> </table>																				Number of Certificate.	Fathoms.	Size.	WEIGHT OF CHAIN CABLE.		Fathoms and Size per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.	HAWERS AND WARPS.		Supplied.	Per Table 22.	Material.	Fathoms.	31531	150	2 1/8	163	724	241	17	283	0	300	2 1/8	Steel	Hingley & Sons, Netherthorpe 26/3/02	31536	150	2 1/8	163	724	241	17	283	0	300	2 1/8	Steel	"		130	6	84				120	5	1/4	Steel Wire	"																																																																	
Number of Certificate.	Fathoms.	Size.	WEIGHT OF CHAIN CABLE.		Fathoms and Size per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.	HAWERS AND WARPS.																																																																																																																																
			Supplied.	Per Table 22.					Material.	Fathoms.																																																																																																																															
31531	150	2 1/8	163	724	241	17	283	0	300	2 1/8	Steel	Hingley & Sons, Netherthorpe 26/3/02																																																																																																																													
31536	150	2 1/8	163	724	241	17	283	0	300	2 1/8	Steel	"																																																																																																																													
	130	6	84				120	5	1/4	Steel Wire	"																																																																																																																														
Boats (6) 4 Lifeboats, 1 Grp. 1 Bimby																																																																																																																																									
Pumps, Number 15 hand pumps. Diameter of Barrel 5" State whether they are in efficient working order <u>Yes.</u>																																																																																																																																									
Windlass is <u>Harfield & Co's patent steam</u> Capstan <u>Steam winches</u>																																																																																																																																									
Engine Room Skylights—How constructed? <u>Steel skylights on steel casings</u>																																																																																																																																									
What arrangements for deadlights in bad weather? <u>Steel shutters with bulknets</u>																																																																																																																																									
Coal Bunker Openings—How constructed? <u>Steel coamings</u> How are lids secured? <u>Bottom & cleats</u> Height above deck? <u>12"</u>																																																																																																																																									
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. each side of well. 2 scuppers & 2 ports 3 x 1 1/4 one 3 x 2 x 0.5																																																																																																																																									
Ceiling in Holds, thickness and material <u>3" H.P.</u> Ceiling 'tween Decks, thickness and material <u>2" H.P.</u>																																																																																																																																									
Cargo Hatchways—How formed? <u>Steel coamings</u> Hatches, If strong and efficient? <u>3" solid.</u>																																																																																																																																									
State size No. 1 Hatch (Forward) <u>19-6 x 16-0</u> No. 2 Hatch <u>39-0 x 18-0</u> No. 3 Hatch <u>21-8 x 18-0</u> No. 4 Hatch <u>13-0 x 18-0</u>																																																																																																																																									
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch																																																																																																																																									
<u>Web and 3 fore and afters at each hatch</u> No. of Breasthooks <u>7</u> No. of Crutches <u>Deep floors</u>																																																																																																																																									
Bulwarks, height above deck and description <u>5 1/2" Steel with 7 1/2" bull plate top</u> Main Rail, material and size <u>7 x 3" T-shaped section</u>																																																																																																																																									
The above is a correct description. <u>R. L. Wright.</u>																																																																																																																																									
Builder's Signature (here only) <u>Wm. & William Henderson & Co., Limited</u> Surveyor to Lloyd's Register of British and Foreign Shipping.																																																																																																																																									

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) 15/6/01. 18/6/01. 2/9/01. 2/8/01. 4/9/01. 5/9/01. 10/9/01. 13/9/01. 1/10/01. 17/10/01. 22/10/01. 1/11/01. 26/11/01. 24/3/02. 2/4/02. 10/4/02. 17/4/02. 20/6/02. 24/6/02. 15/7/02. 2/8/02. 17/9/02. 18/9/02. 6/10/02. 14/10/02.

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 facing surfaces? Yes. Do any rivets break into or through the seams or butts of plating? very few.

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 Good.

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

General Remarks (State quality of workmanship, &c.) This vessel is a Steel Twin Screw Steamer having erections consisting of fore poop and bridge combined, and fore-castle. The workmanship throughout is good. She has been built in accordance with the approved plans, the Secretary's letters of above dates, and in general conformity with the Rules for the class contemplated, with one exception, viz; the middle line partition bulkhead in the deep tank has not been fitted, but an arrangement of pillars has been fitted in lieu thereof, which was not considered satisfactory compensation for the omission of the middle line bulkhead. The vessel having during construction been acquired by Mr. Alfred Holt, the original intention of carrying oil fuel in the double bottom and peak tanks has been abandoned. This is a sister vessel to the T.S.S. Kingchow. Yls. Report No 20306

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 302 ft., F'castle 75 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated The Poop is joined to the Bridge Deck.

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, 8th, & deep framing

Official No. ✓; Signal Letters ✓

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

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

Where fitted.	*Length.	Water Capacity.	Where fitted.	*Length.	Water Capacity.
Feet.	Tons.	Feet.	Tons.	Feet.	Tons.
Double bottom, aft,	147	552	Fore peak tank,	24	110
Double bottom, under Engines and Boilers,	61	326	After peak tank,	13	60
Double bottom, if under Engines only,	✓		Midship deep tank,	39	1228
Double bottom, if under Boilers only,	✓		Other tanks, if fitted,		
Double bottom, forward,	204	864	(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 3488

Date 19/7/01

No. 430 in builder's yard.

Dates of Surveys held while building 1902: Feb. 10, 12, 14, 17, 18, 21, 24, 26, 28. Mar. 5, 7, 11, 13, 17, 21, 25, 27. Apr. 1, 3, 7, 10, 14, 17, 21, 23, 28. May 3, 7, 12, 14, 19, 26. 28, 30. Jun. 3, 5, 10, 12, 16, 20, 24, 26, 30. Jul. 2, 7, 10, 11, 15, 26, 28, 30. Aug. 5, 8, 11, 12, 14, 20, 26, 28. Sep. 1, 3, 10, 12, 16, 17, 18, 24, 30. Oct. 3, 9, 10, 13, 17, 20, 24, 27, 29, 30, 31. Nov. 4, 5, 7, 10, 13, 17, 20, 28. Dec. 1, 4, 8, 11, 12, 16, 22. Jan. 8, 9

Total No. of Visits 54

The amount of Entry Fee £ 5 : : 27/12/1902

Special Survey Fee £ 209 : 10 : Received by me, R. L. Wright.

Travelling Expenses, if any £ : : 31/12/1902

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

I am of opinion this Vessel should be Classed 100A.1. Steel. When middle line bulkhead in deep tank is fitted

With, or without Freeboard, as condition of Class line bulkhead in deep tank is fitted

Committee's Minute Glasgow. 12 JAN. 1903

Character assigned 100A.1 (Steel) Slope 1.1 C.D.

(When middle line bulkhead in deep tank is fitted)

General Committee, 5th Feby 1903

100A.1 (Steel)

2 Dks (Stl) & deep framing

Slope 1.1 C.D.

R. L. Wright.

Wm. & William Henderson & Co., Limited

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