

1 or 2 Dks., R.Q. Dk.,
and Pt. Awng. Dk.

IRON OR STEEL STEAMER.

No. 20626

State of Report is also sent on the Machinery of the Vessel
Date of completion of Report 27-7-01

Received at London Office,

TUES. JUL 30 1901

Port of Sunderland
Date, First Survey 28th June 1900 Last Survey 16th July 1901
Rig Behn

Survey held at Sunderland
On the SS GRATIA

TONNAGE under
Tonnage Deck 1305.93
Do. of Poop 111.82
Do. of Raised Qr. 326.10
Do. of Bridge House 87.00
Do. of Houses on Deck 18.52
Do. of excess of Hatchways 39.20
Do. above Crown of Engine Room 1888.57
Gross Tonnage 87.32

ONE OR TWO DECKED VESSEL.
CLASS 100A1

Master A P Sko

Year of appointment (1) As master in service of owner of present vessel: 1896
(2) As master of this vessel: July 1901

Built at Sunderland

When built 1901 Launched 19th June 1901

By whom built The Strand Shipway
Owners 1 Leckie & Son

Managers P & Fisher
(Where necessary to be entered in Reg. Book.)

Residence Copenhagen

Port belonging to Copenhagen

Half Breadth (moulded) 18.95
Depth from upper part of keel to top of Main Deck Bms. 19.25
Girth of Half Midship Frame (as per Rule) 34.73
1st Number 7293
Length on deck from after part of stem to fore part of stern post 256.33
2nd Number 18,694
Proportions—Breadths to Length 6.7
Depths to Length—Main Deck to top of Keel 13.3

Destined Voyage Stettin

If Surveyed while Building, Afloat, or in Dry Dock Building

Deck as Feet. Inches. BREADTH—Feet. Inches. DEPTH, ACTUAL—Feet. Inches. No. of Decks with Flat laid one
256 4 Moulded 37 10 3/4 Top of Floors to top of Main Deck Beams 16 3 No. of Tiers of Beams one
Ship per Register, Length, 257.9 breadth, 38.2 depth, 16.2 Moulded Depth, 18 ft. 5 1/2 ins. Round of Beam, Actual 9 1/2 ins.

FRAMING.						FORGINGS AND CASTINGS.					
Inches in Ship	Inches in Ship	20ths of 1/2 inch per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths of 1/2 inch per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths of 1/2 inch per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths of 1/2 inch per Rule Or as Approved
Angles, L or R Bars, for 1/2 length	7 1/2	3	11	7 1/2	3	11	KEEL, Bar or Side Plates depth and thickness	8 1/2 x 2 1/2	8 1/2 x 2 1/2	8 1/2 x 2 1/2	8 1/2 x 2 1/2
Midships	"	"	9	"	"	9	STEM, moulding and thickness	8 1/2 x 5	8 1/2 x 5	8 1/2 x 5	8 1/2 x 5
at each end	"	"	9	"	"	9	STERN-POST for Rudder do. do.	do	do	do	do
Y of Double Bottoms at Solid Floors	3	3	8	3	3	8	for Propeller	do	do	do	do
" at intermdt. Bkts.	4 1/2	3	8	4 1/2	3	8	MAIN PIECE of Rudder, diameter at head	7 3/8	7 3/8	7 3/8	7 3/8
Frames from moulding edge to edge, all fore and aft	-	24	-	-	24	-	do. at heel	5 1/2 x 3 1/2	5 1/2 x 3 1/2	5 1/2 x 3 1/2	5 1/2 x 3 1/2
D FRAME, Angles	3	3	7	3	3	7	RUDDER, how constructed	Forged side-plate Rudder			
AMING, depth of girder	-	7 1/2	-	-	7 1/2	-	Can the Rudder be unshipped afloat?	Yes			
depth and thickness of Floor Plate							KEELSONS AND STRINGERS.				
mid-line for 1/2 length amidships							CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate				
Way of Engines and Boilers							" Rider Plate				
ness at the ends of vessel							" Bulb Plate to Intercoastal Keelson				
at 1/2 the half breadth, as per Rule							" Horizontal Plates on Floors				
at extended at the Bilges							" Angles				
BRACKETS, in Cell Dble Bottoms							" Bulb or Plate above floors for lng.				
" Distance apart	-	24	-	-	24	-	" Intercoastal Plate for length				
GIRDER, in Double Bottom, depth and thickness	36	-	9	36	-	9	" Attached to outside plating with Angle				
" Angles, Top	4	4	9	4	4	9	BILGE KEELSON, Angles				
" " Bottom	5	4	9	5	4	9	" Bulb or Plate above floors for len.				
ERS, number on each side & thickness	Three	7	Three	7			" Intercoastal Plate for length				
Angles	3	3	7	3	3	7	" Attached to outside plating with Angle				
PLATE, depth (exclusive of flange) and thickness	27	-	8	26	-	8	BILGE STRINGER Angles				
Angles to Outside Plating	3 1/2	3 1/2	8	3 1/2	3 1/2	8	" Bulb Plate for length				
BOTTOM PLATING, breadth and thickness of Middle Line Strake	48	-	8	48	-	8	" Intercoastal Plate for length				
thickness in Engine and Boiler space	7/16	-	7/16	7/16	-	7/16	" Attached to outside plating with Angle				
" Remainder in Holds	7/16	-	7/16	7/16	-	7/16	SIDE STRINGERS Angles 2 bulb angles	9	3 1/2	13	9
Main and Raised Quarter Deck, Angle, Bulb Angle, Plate or Tee Bulb	3	3	9	3	3	9	" Bulb or Intercoastal Plate for full lng.	-	16 1/2	10	-
Angles on Upper Edge	-	-	-	-	-	-	" Attached to outside plating with Angle	3	3	7	3
average space	-	24	-	-	24	-	Main and Raised Quarter Deck Stringer	36 1/2	10	36 1/2	10
Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Plate, breadth and thickness				
Angles on Upper Edge							" Angle on ditto	4 x 4 x	9	4 x 4 x	9
average space							" Tie Plates fore & aft, outside Hatchways				
old, Plate or Tee Bulb							" Diagonal Tie Plates on Bms., No. of Pairs				
Angles on Upper Edge							" Main Dk* Iron or Steel for full lng.		7/20		7/20
average space							" R. Q. Dk* Iron or Steel for full lng.		7/16		7/16
old, Plate or Tee Bulb							" Wood Deck, Material & thickness				
Angles on Upper Edge							Lower Deck Stringer Plate, breadth and thickness				
average space							" Angles on ditto, No.				
Top Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Tie Plates, outside Hatchways				
Angles on Upper Edge							" Deck* Material and thickness				
average space							Hold Stringer Plate				
Edge or Pt. Awng. Deck, Angle, Bulb Angle, Plate, or Tee Bulb	5 1/2	3	8	5 1/2	3	8	" Angles on ditto, No.				
Angles on Upper Edge							Poop Deck Stringer Plate, breadth & thickness				
average space		24		-	24		" Angle on ditto				
Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Tie Plates				
Angles on Upper Edge							" Deck, Material and thickness				
average space							Bridge Deck Stringer Plate, brdth & thickness	38	9	38	9
In 'tween Decks, Size and Spacing	Centre-line Bldg		Centre-line				" Angle on ditto	4 x 4 x	9	4 x 4 x	9
" Hold	fore & aft in holds		bulbhead				" Tie Plates				
Quarter, 'tween Dks.,	'tween Dk as per approved plan						" Deck, Material and thickness	5/16		5/16	
" in Hold							Forecastle Deck Stringer Plate, brdth & thcknss				
WEB FRAMES, In Fore Body, No. and Spacing							" Angle on ditto				
" " " Brdth. & Thickness							" Tie Plates				
" No. of Side Stringers							" Deck, Material and thickness				
WEB FRAMES, In E. & B. Space, No. & Spacing							one				
" " " Brdth. & Thickness	30"	-	8	30"	-	8	one				
WEB FRAMES, In After Body, No. and Spacing											
" " " Brdth. & Thickness											
" No. of Side Stringers											
" Size of Angles or Tee Bars to Web Frames	5 1/2	3 1/2	9	5 1/2	3 1/2	9					
BRACKET PLATES to Stringers between Web Frames, Depth 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 or to cr.			Diam.	Spacing or 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.	16ths or 20ths.	Inches.	Feet.		
FLAT PLATE KEEL	42	16	12	12	42	16	Double	6	1	4	Treble	1	3 1/2	-	-	10 1/2	full		
(If Bar Keel, state Riveting)																			
GARBOARD OR A'Strake	54	12	11	11	54	12	"	5 1/2	7/8	3 3/4	"	7/8	3 1/8	-	-	9	"		
B " "	60	10	10	8	60	10	"	"	"	"	Quad	"	3 1/2	-	-	11 1/4	"		
C " "	60	10	10	8	60	10	"	"	"	"	Treble	"	3 1/8	-	-	9	"		
D " "	54	11	9	9	54	11	"	"	"	"	"	"	"	-	-	"	"		
E " "	4 1/2	11	9	9	4 1/2	11	"	"	"	"	"	"	"	-	-	"	"		
F " "	51	11	8	8	51	11	"	"	"	"	"	"	"	-	-	"	"		
G " "	46	10	8	8	46	10	"	"	"	"	"	"	"	-	-	"	"		
H " "	54	10	8	8	54	10	"	"	"	"	"	"	"	-	-	"	"		
Sheer J " "	42	14	10	10	42	14	"	"	"	"	"	"	"	-	-	"	"		
K " "																			
L " "																			
M " "																			
N " "																			
O " "																			
P " "																			
DOUBLING of Flat Plate Keel																			
Length and thickness of Bilges																			
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES																			
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF PLATING																			

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.?

Steel: Corus & S. Durham

Iron: 3 Durham Tyzack

Has the Steel been tested as required by the Rules? yes

Main Stringer Plate Butts, treble riveted for half length amidship.

Straps, single, double or overlapped for full length amidship.

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

Inner Bottom Plating, riveting of Edges single double Butts single double

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

Frames, riveted through Plates with 7/8 in. Rivets, about 6 1/4 apart.

Rivets, state whether of Iron or Steel iron

FRAMES extend in one length from on line to tank margin, thence to gunwale

REVERSED FRAMES on floors and frames extend from on line to tank margin, half-angle frames beyond

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	Steel	63-6"	18 x 6/20	14 x 5/20	15 x 3/20	11 1/2 x 5/20	two	✓	✓	single	treble
Main	"	56-0	17 1/2 x 6/20	13 1/2 x 5/20	14 x 3/20	12 x 3/20	"				
Mizen	"										
Bowsprit	✓										
Topmasts, Yards and Remainder of Spars	Pitch pine										
Rigging, Material and Size, Shrouds	Steel wire 3/4										
Stays	Steel wire 3 3/4										
Sails.	one	Suit of	fine cloth								
			Sails and the following spare sails								

EQUIPMENT No. 21030 LETTER Q TONNAGE FOR TRAWLERS ✓ U.D.K.

ANCHORS.

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.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
371	1st Bower	34	2	0	-	-	-	32	0	0	0	34	2	0	Byers	14-6-01 Welford
448	2nd "	34	1	14	-	-	-	31	18	0	14	34	2	0	"	4-7-01
447	3rd "	29	3	0	-	-	-	28	8	3	0	29	3	0	"	4-7-01
	Collective weight	98	2	14								98	3	0		
365	Stream	8	3	0	2	0	21	10	17	2	0	8	3	0	Common	13-6-01
366	Kedge	4	2	21	1	0	21	7	2	2	0	4	2	0	"	13-6-01

Mechanical test by T. Phillips & J.C. Craig

See Surveyor's letter 19-7-01

CHAIN CABLES.												HAWSERS AND WARPS.				
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Table 22.		
				Supplied.	Per Table 22.											
87	240	1 1/16	71 3/4	347.0	10344	2.22	240 x 1 1/16	Steel	John Green Ltd 21-6-01 Welford	TOWLINE	90	3 1/2	26	90 x 3 1/2		
			51 1/4							HAWSER	180	3	18	180 x 6		
										WARP	180	2 1/2	12 1/2	180 x 5		

Boats Three

Pumps, Number Donner Diameter of Barrel 1 1/2 State whether they are in efficient working order yes

Windlass is Iron Walker Capstan ✓

Engine Room Skylights.—How constructed? Plates & bars

What arrangements for deadlights in bad weather? Steel plates

Coal Bunker Openings.—How constructed? Plates & bar How are lids secured? hatches & covers Height above deck? 15"

Number of Scuppers, and number and dimensions of Freeing Ports, &c. Ten scuppers light ports 2'-4" x 1'-9"

Ceiling in Holds, thickness and material 2 1/2 pine Ceiling 'tween Decks, thickness and material 6 x 2 1/2 pine

Cargo Hatchways.—How formed? Plates & bar Hatches.—If strong and efficient? yes

State size No. 1 Hatch (Forward) 22 x 14 No. 2 Hatch 24 x 14 No. 3 Hatch 22 x 14 No. 4 Hatch 20 x 14

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch No. 1, 2 & 3 two web plates & 3 fore & afters No. of Breasthooks four No. of Crutches deep floors

No. 4 Hatch one web & three fore & afters

Bulwarks, height above deck and description 3'-4" steel plate Main Rail, material and size half angle

The above is a correct description.

Builder's Signature (here only.) John Brown Surveyor's Signature Al Campbell 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 the case)

M 12th Nov 1900 E 2^d Jan 1901 M 8th Feb 1901 M 8th May 1901 M 18th July 1901 M 19th July 1901

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 the 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 *good*

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

State results of tests *good*

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

This vessel has been built under special survey, in accordance with the approved plans, the Secretary's letter of above dates & otherwise in conformity with the Society's rules. The material & workmanship are good throughout. The sides of the vessel at the bow have been strengthened against ice, by putting intermediate frames (from light to load line in front of collision bulkhead) & by thickening to a strake (inclusive) by 4/20" at this part.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *✓* ft., R.Q.D. or Break *82* ft., Bridge Dk. *✓* ft., F'castle *✓* 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

1 Dk (M 8th & pt iron) 9 deep panies & pt Aung dk iron

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)

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.

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>68</i>	<i>166</i>	Fore peak tank,	<i>16</i>	<i>31</i>
Double bottom, under Engines and Boilers,	<i>18</i>	<i>44</i>	After peak tank,	<i>14</i>	<i>48</i>
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,	<i>✓</i>	<i>✓</i>	Other tanks, if fitted,		
Double bottom, forward,	<i>116</i>	<i>242</i>	(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 on both*

Order for Special Survey No. *4326*
Date *6th Nov 1900*
No. *105* in builder's yard.
DATES of Surveys held while building
1900.- Nov 28. Dec 10. 20. 21. 1901.- Jan 5. 7. 14. 16. 21. 23. 26. Feb 5. 6. 12. 14. 19. 22. 26. Mar 5. 7. 8. 11. 15. 18. 19. 22. 28. April 2. 16. 17. 22. 26. 29. May 1. 3. 10. 13. 15. 17. 22. 24. 31. June 5. 12. 14. 18. 19. July 3. 6. 10. 12. 16.
Total No. of Visits *52*

The amount of Entry Fee *£ 4 : 0 : 0*
Special *£ 69 : 4 : 0*
Certificate *£ : : 1. 8. 01*
Travelling Expenses, if any *£ : : 18. 01*

Fees applied for, *29. 7. 01*
Received by me, *1. 8. 01*

* Certificate to be sent to

Sunderland.

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 *with*

A. Rampbeestrom

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

Committee's Minute
Character assigned

FRI. AUG 2 1901

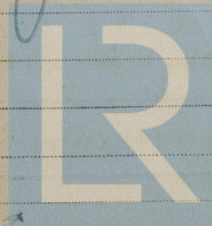
*100A1 (Steel)
pt avr dk with fld 5. 8. 1.*

arb. P.

with fld.

L.V.

+ L.M. 6. 7. 01



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