

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office

State if Report is also sent on the Machinery of the Vessel

Date of completion of report

Port of

No.

Survey held at

Date, First Survey

Last Survey

1902

On the

THREE DECKED VESSEL.

Master

Year of appointment

TONNAGE under

Tonnage Deck...

Do. between Tonnage Dk.

and 3rd and 4th Dk.

Total under Upper Dk.

Do. of Poop

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Room

for FEES

Room

ation Spaces

Tonnage

Beam

CLASS 100 A. 1.

FEET.

Half Breadth (moulded)

Depth from upper part of Keel to top of Upper Deck Beams

Girth of Half Midship Frame (as per Rule)

deduct 7 feet

1st Number

Length on deck from after part of stem to fore part of

stern post

2nd Number

Proportions—Breadth to Length

Depth to Length—Upper Deck to top of Keel

Main Deck ditto

Destined Voyage

If Surveyed while Building Afloat, or in Dry Dock

on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
do.	479	11	Moulded	58		Do.	do.	32	10 1/2	Two
										No. of Tiers of Beams
										Two
										Round of Upper
										Dk. Beam, Actual
										14 1/2 ins.

of Ship per Register, Length 482 breadth 58.25 depth 32.85 Moulded depth, ft. 35 ins. 10 To Upper Dk.

FRAMING.						FORGINGS or CASTINGS.					
Inches in Ship						Inches in Ship					
Angles, or $\frac{1}{2}$ E or L Bars for $\frac{1}{2}$ length						KEEL, Bar or Side Plates, depth and thickness					
midships						STEM, moulding and thickness					
at each end						STERN-POST for Rudder do. do.					
y of Double Bottoms at Solid Floors						" for Propeller					
" at intermdt. Bkts.						MAIN PIECE of Rudder, diameter at head					
Frames from moulding edge to						" do. at heel					
edge, all fore and aft						RUDDER, how constructed					
D FRAME, Angles						Can the Rudder be unshipped afloat?					
AMING, depth of girder						KEELSONS & STRINGERS.					
depth and thickness of Floor Plate						CENTRE LINE KEELSON, Vertical Plate above					
mid-line for $\frac{1}{2}$ length amidships						floors, Through Plate, or Intercoastal Plate					
ay of Engines and Boilers						" Rider Plate					
ness at the ends of vessel						" Bulb Plate to Intercoastal Keelson					
a at $\frac{1}{2}$ the half breadth, as per Rule						" Horizontal Plates on Floors					
nt extended at the Bilges						Angles					
BRACKETS in Cell Dble Bottoms						" <i>double in twin decks</i>					
" Distance apart						SIDE KEELSON, Angles					
GIRDER, in Double bottom, depth						" Bulb or Plate above floors, for					
d thickness						" Intercoastal Plate, for whole length					
" Angles, Top						" Attached to outside Plating with Angle					
" Bottom						BILGE KEELSON, Angles					
BERS, number on each side & thickness						" Bulb or Plate above floors, for					
" Angles						" Intercoastal Plate for					
PLATE, depth (exclusive of flange)						" Attached to outside Plating with Angle					
d thickness						BILGE STRINGER Angles					
" Angles to Outside Plating						" Bulb Plate for					
OTTOM PLATING, breadth and						" Intercoastal Plate for					
thickness of Middle Line Strake						" Attached to outside Plating with Angle					
" in Engine and Boiler space						SIDE STRINGER Angles					
" Remainder in Holds						" Bulb or Intercoastal Plate, for whole lng.					
Upper Deck, Single Angle, Bulb						" Attached to outside plating with Angle					
Angle, Plate or Tee Bulb Channel						Upper Deck Stringer Plates, br'dth & thickness					
Angles on upper edge						" Angle on ditto					
Average space						" Tie Plates fore and aft, outside Hatchways					
Middle Deck, Single Angle, Bulb						Deck * <i>Iron or Steel</i> , for full lng.					
Angle, Plate or Tee Bulb Channel						Wood Deck. Material & thickness					
Angles on upper edge						Middle Deck Stringer Plate, br'dth & thickness					
Average space						" Angles on ditto, No.					
Lower Deck, Single Angle, Bulb						" Tie Plates outside Hatchways					
Angle, Plate or Tee Bulb						" Diagonal Tie Plates on Bms., No. of prs.					
Angles on upper edge						Deck * <i>Iron or Steel</i> , for full lng.					
Average space						Wood Deck. Material & thickness					
Fold, or Orlop, Plate or Tee Bulb						Lower Deck Stringer Plate, br'dth & thickness					
Angles on upper edge						" Angles on ditto, No.					
Average space						" Tie Plates, outside Hatchways					
Poop Deck, Angle, Bulb Angle, Plate						Deck * Material and thickness					
Angle, Plate or Tee Bulb						Hold, or Orlop Stringer Plate, br'dth & thckn's					
Angles on upper edge						" Angles on ditto, No.					
Average space						" Tie Plates outside Hatchways					
Forecastle Deck, Angle, Bulb Angle,						Deck. Material and thickness					
Plate or Tee Bulb						Poop Deck Stringer Plate, breadth & thickness					
Angles on upper edge						" Angle on ditto					
Average space						" Tie Plates					
In 'tween Deck, size and spacing						Deck. Material and thickness					
" Hold						Bridge Deck Stringer Plate, br'dth & thickness					
Quarter 'tween Dks.,						" Angle on ditto					
" in Hold						" Tie Plates					
MES, In Fore Body, No. and spacing						Deck. Material and thickness					
" br'dth. & thickness						Forecastle Deck Stringer Plate, b'dth & th'kns					
No. of Side Stringers						" Angle on ditto					
MES, In E. & B. Space, No. & spacing						" Tie Plates					
" br'dth. & thickness						Deck. Material and thickness					
MES, In After Body, No. and spacing						BULKHEADS.					
" br'dth. & thickness						Number.					
" No. of Side Stringers						In Vessel.					
" Size of Angles or Tee Bulbs to Web-Frames						Per Rule.					
BRACKET PLATES to Stringers between						Thickness.					
Web Frames, depth and thickness						STIFFENERS.					
						Horizontal.					
						Vertical.					
						Single or Double Frames.					
						Height up.					
						W. T. BULKHEADS					
						PARTITION					
						LONGITUDINAL					
						Are the outside Plates doubled two spaces of Frames in length?					
						Are the Sluice Valves and Watertight Doors in efficient working order?					

PLATING.										RIVETING.														
AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.									
STRAKES.	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	Diam.	Spacing or to center.	RIVETS.	Double or Treble and for what length.	Diam.	Spacing or to center.	BREADTH.	THICKNESS.	IF LAPPED.	
	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.												
FLAT PLATE KEEL.....	46	23	16	16	46	23	16	46	23	16	46	23	16	Double	6 3/4	1 1/8	3 3/4	5 Bl	1 1/8	3 3/8	22	16-14	12 1/2	1/2
GARBOARD OR A STRAKE...	51	17	14	14	51	17	14	51	17	14	51	17	14	"	5 1/4	7/8	3 3/4	2 quad	1 1/8	3 1/2	12 1/2	1/2	12 1/2	1/2
State actual thickness in way of Double Bottom.	B	13	12	12	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"
C	13	12	12	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
D	13	11	14	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
E	13	12	12	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
F	14	11	14	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
G	14	11	14	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
H	14	11	14	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
J	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
K	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
L	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
M	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
N	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
O	14	11	13	14	11	14	14	11	14	14	11	"	"	"	"	"	"	"	"	"	"	"	"	
P	46 1/2	18	13	13	46 1/2	18	13	46 1/2	18	13	46 1/2	18	13	"	"	"	"	"	"	"	"	"	"	
Q	12	8	8	12	8	8	12	8	8	12	8	8	5 1/4	7/8	3 3/4	5 Bl	1 1/8	4 1/2	16	14 1/2	9	Full	16	
R	14	8	8	14	8	8	14	8	8	14	8	8	5 1/4	7/8	3 3/4	5 Bl	1 1/8	4 1/2	16	14 1/2	9	Full	16	
DOUBLING OF Flat Plate Keel	Increased in thickness in lieu of Bilges												G.H.J.K. Four Landings											
Length and thickness of Strake below	In way of well only 18-16												H.J.K. & L. 50											
POOP SIDES	8												8											
BRIDGE SIDES	14-8												14-8											
FORECASTLE SIDES	8												8											

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.: *James Watson & Co. Glasgow*

Upper Deck (Butts, treble riveted for half length amidship, Stringer Plate (Straps, single, double or overlapped for full length amidship, Middle Deck (Butts, treble riveted for full length amidship, Stringer Plate (Straps, single, double or overlapped for full length amidship, Butts of Bilge & Side Stringers and Tie Plates, treble riveted for full length amidship, Inner Bottom Plating, riveting of Edges Double Butts Double Centre Girder Butts, Treble riveted Keelson Butts, riveted Frames, riveted through Plates with 1 1/8 in. Rivets, about 5 1/4-6 3/4 apart. Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from Centre girder to Margin plate and from Margin plate to weather decks. REVERSED FRAMES on floors and frames extend from Centre girder to Margin plate and from Margin plate to Upper Deck and alternately to Forecastle Deck.

MASTS, SPARS, &c.

Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	Number.	Size.	Seams.	RIVETING.
		At Partners.	Heel.	Hounds.	Head.					
Fore	Steel 88 ft. 30 x 3/4	2 1/2	2 1/2	2 1/2	2 1/2	4	3	3 1/2 x 3 3/4		
Main	68 "	2 1/2	2 1/2	2 1/2	2 1/2	4	3	3 1/2 x 3 3/4		
Mizen	88 ft. 30 x 3/4	2 1/2	2 1/2	2 1/2	2 1/2	4	3	3 1/2 x 3 3/4		

Boomsprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds 4 1/4 steel wire, 14 1/2 Stays Forelay 5", 4 1/4 preventers 2 lbs.

Sails, One Suit of Fore & Aft Sails, and the following spare sails

EQUIPMENT No. 68104 LETTER 2+

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	lbs.	Cwts.	lbs.				
47802	1st Bower	89	0 19	89	0 19	63 5	0 0	84	Iron Bowers
47803	2nd "	84	3 0	84	3 0	62 5	0 0	84	"
47804	3rd "	84	2 5	84	2 5	62 5	0 0	84	"
47805	4th "	84	2 5	84	2 5	62 5	0 0	84	"
47806	Collect weight	264	1 24	264	1 24	264	1 24	264	As appd.
47807	Stream	23	3 23	23	3 23	23	3 23	23	Iron Stock
47808	Kedge	12	7 5	12	7 5	12	7 5	12	"

CHAIN CABLES.

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.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire per Table 22.	Fathoms and Size per Table 22.
			Supplied.	Per Table 22.									
31646	150	2 1/2	116 1/2	494	12 1/2	300	2 1/2	116 1/2	116 1/2	2 1/2	116 1/2	116 1/2	
31647	150	2 1/2	116 1/2	494	12 1/2	300	2 1/2	116 1/2	116 1/2	2 1/2	116 1/2	116 1/2	

Iron Stream Chain or Steel Wire

Boats 4 Life 2 others

Pumps, Number 15 Diameter of Barrel 5" State whether they are in efficient working order Yes.

Windlass is Iron patent Capstan

Engine Room Skylights—How constructed? Steel casing

What arrangements for deadlights in bad weather? Steel shutter & bulls-eyes.

Coal Bunker Openings—How constructed? Steel casings How are lids secured? Bolted down Height above deck? 15"

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 5 scuppers & 3 freeing ports 2-9x1-0 and 1-2-6 x 2-0 each side

Ceiling in Holds, thickness and material Spruce 2 1/2 Ceiling 'tween Decks, thickness and material Spruce 2"

Cargo Hatchways—How formed? Steel Casings

State size No. 1 Hatch (Forward) 21-9 x 15 No. 2 Hatch 30-3 x 18 No. 3 Hatch 21-9 x 18 No. 4 Hatch 12-6 x 18

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch As appd. plans No. 5 Hatch 19-6 x 18 No. 6 Hatch 26 x 18 No. 7 Hatch 26 x 18

Bulwarks, height above deck and description 4-6' Steel plates No. of Breasthooks 8 No. of Crutches 38 deep floors

The above is a correct description.

Builder's Signature (here only) PRO WORKMAN, CLARK & CO., LIMITED Surveyor's Signature E. J. Milton 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) *M 13-8-07-19-8-07*

26-8-07. 28-9-07. 11-10-07. 14-10-07. 21-11-07. 22-2-08. 1-8-08. 3-10-08. 14-10-08

Workmanship. Are the butts of plating planed or otherwise fitted? *Lapped & 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? *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 *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 built in accordance with the Rules, the approved plans and the Secretary's letters quoted above. The workmanship and materials are good throughout. The riveting and arrangements of the Cellular Double Bottom have been made to allow of liquid being carried, if required in the future, but the pumping arrangements etc. are not now fitted. No solid cement has been fitted to inside surface of shell plating throughout Cellular Double Bottom, but the usual practice has been adopted elsewhere. See Secretary letter 13/8/07 and Owners letter 1/10/02 attached hereto.*

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop and B.D. *33' 5 ft.*, Bridge Dk. *33' 5 ft.*, F'castle *78' 5 ft.* (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *The poop and bridge deck are joined*

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 Sts (Steel) and Self framing*

Official No. *110827*; Signal Letters

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

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

Where fitted.	Length.		Water Capacity.		Where fitted.	Length.		Water Capacity.	
	Feet.	Tons.	Feet.	Tons.		Feet.	Tons.		
Double bottom, aft,	33 1/2	325	Fore peak tank,	24	110				
Double bottom, under Engines and Boilers,	37	325	After peak tank,	15	80				
Double bottom, if under Engines only,			Midship deep tank,	35	1120				
Double bottom, if under Boilers only,			Other tanks, if fitted,						
Double bottom, forward,	200	840	(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. *458*

Date *14 Sep 1901*

No. *191* in builder's yard.

DATES OF SURVEYS held while building

1401. 8.16.19.21.26.27.29. Dec 3.5.11.13. 1902 Jan 3.6.7.10.13.15.22.23.31. Feb 3.5.7.11.18.28. March 3.4.7.11.12.14.19.21.26.27. April 7.9.10.14.17.18.21.23.25.28.29. May 2.5.12.14.15.21.26.29.30. June 5.9.12.16.20.24.30. July 2.4.8.9.11.24.25.29.31. August 4.7.11.12.15.18. Sep 6.11.16.17.22.23.25.26.29. Oct 1.2.3.4.6.7.8.9.10.13.16. Total No. of Visits *98.*

The amount of Entry Fee £ *5 : 0 : 0* Fees applied for, *17th Dec 1902*

Special Survey Fee £ *22 : 2 : 6* Received by me, *23/10/02*

Travelling Expenses, if any £ *:*

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

I am of opinion this Vessel should be Classed ** 100 A1 Steel.* (Well Deck)

With, or without Freeboard, as condition of Class *Without*

Committee's Minute *FRI. 24 OCT 1902*

Character assigned *100 A1 Steel*

long a rcl + 2mc 10, 02

70

E. J. Milton

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

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