

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office **SAT. APL 12 1902**

Date of completion of report

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

Survey held at

Port of

No. 5410

On the

Date, First Survey

Last Survey

TONNAGE under

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk.

Do. of Poop

Do. of Bridge Houses

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

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

THREE DECKED VESSEL.

CLASS 100 A. 1. FEET.

Half Breadth (moulded)

Depth from upper part of Keel to top of Upper Deck Beams (with the normal round up of beam)

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

Baltimore

If Surveyed while Building, Afloat, or in Dry Dock

Master

D. McVicker

Year of appointment

(1) As Master in service of owner of present vessel—1898
(2) As Master of this vessel—18

Built at

Belfast

When built

1901-2

Launched

13 Feb 1902

By whom built

Workman Clark & Co

Owners

Irish Shipowners Co

Managers

Thos Simon & Sons

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

Residence

Belfast

Port belonging to

Belfast

LENGTH on Deck as per Rule ... 378 2
BREADTH—Moulded ... 47 0
DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams ... 28 8 5
Do. do. do. do. Main Dk. Beams ... 20 6
No. of Decks with flat laid ... 2
No. of Tiers of Beams ... 2
Round of Upper Dk. Beam, Actual ... 11 3/4 ins.

Dimensions of Ship per Register, Length 378.3 breadth 47.2 depth 28.85 Moulded depth, ft. 31 ins. 6 To Upper Dk.

FRAMING.

	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
NAME, Angles, or Bars for length amidships	6 3/2	10 1/2	6 3/2	10 1/2					
Do. for 1/2 at each end	6 3/2	9 1/2	6 3/2	9 1/2					
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	10 1/2	9 1/2	3 1/2	10 1/2			
Do. at intermdt. Bkts.									
Distance of Frames from moulding edge to moulding edge, all fore and aft	25		25						
VERSED FRAME, Angles	6 1/2	3 1/2	10 1/2	9 1/2	3 1/2	10 1/2			
DECK FRAMING, depth of girder			9 1/2	9 1/2					
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships									
Do. in way of Engines and Boilers									
Thickness at the ends of vessel									
Depth at 1/2 the half breadth, as per Rule									
Height extended at the Bilges									
DOORS & BRACKETS in Cell Dble Bottoms			8 1/2		8				
Distance apart	25		25						
CENTRE GIRDER, in Double bottom, depth and thickness	4 1/2	10 1/2	4 1/2	10 1/2					
Angles, Top	6 1/2	4 1/2	10 1/2	6 1/2	4 1/2	10 1/2			
Bottom	4 1/2	4 1/2	9 1/2	4 1/2	4 1/2	9 1/2			
EDGE GIRDERS, number on each side & thickness	1		8 1/2		8				
Angles	3 1/2	3 1/2	8 1/2	3 1/2	3 1/2	8			
SKIN PLATE, depth (exclusive of flange) and thickness	4 1/2		10 1/2	35	10				
Angles to Outside Plating	4	4	9 1/2	4	4	9			
UPPER BOTTOM PLATING, breadth and thickness of Middle Line Strake	36		10 1/2	36	10 1/2				
Do. in Engine and Boiler space			9 1/2	8 1/2	9 1/2	8 1/2			
Remainder in Holds			8 1/2		8 1/2				
MS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channel	10 1/2	3 1/2	10 1/2	3 1/2	10 1/2	3 1/2			
Angles on upper edge									
Average space	50		50						
MS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channel	11 1/2	3 1/2	10 1/2	3 1/2	10 1/2	3 1/2			
Angles on upper edge									
Average space	50		50						
MS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb									
Angles on upper edge									
Average space									
MS, Hold, or Orlop, Plate or Tee Bulb									
Angles on upper edge									
Average space									
MS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	10 1/2	7 1/2	3	10			
Angles on upper edge									
Average space	50		50						
MS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	3 1/2	10 1/2	8 1/2	3 1/2	10			
Angles on upper edge									
Average space	50		50						
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8		9 1/2	8		9			
Angles on upper edge									
Average space	50		50						
MS, In 'tween Deck, size and spacing	23 1/4		50	23 1/4		50			
Hold	4 3/4		50	4 3/4		50			
Quarter 'tween Dks.,	23 1/4		100	23 1/4		100			
in Hold	4 3/4		100	4 3/4		100			
WEB-FRAMES, In Fore Body, No. and spacing	2		10	2		10			
brdth. & thickness									
No. of Side Stringers									
WEB-FRAMES, In E. & B. Space, No. & spacing	27		10	27		10			
brdth. & thickness									
WEB-FRAMES, In After Body, No. and spacing									
brdth. & thickness									
No. of Side Stringers									
Size of Angles or Tee Bars to Web-Frames	4 1/2	3 1/2	9	4 1/2	3 1/2	9			
BRACKET PLATES to Stringers between Web Frames, depth and thickness									

FORGINGS or CASTINGS.

	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
KEEL, Bar or Side Plates, depth and thickness	11 x 3/8		11 x 3/8						
STEM, moulding and thickness	11 x 3/8		11 x 3/8						
STERN-POST for Rudder do. do.	11 x 3/8		11 x 3/8						
Do. for Propeller	11 x 3/8		11 x 3/8						
MAIN PIECE of Rudder, diameter at head	9 1/2		9 1/2						
Do. at heel	7 3/4		7 3/4						
RUDDER, how constructed	Single plate		Single plate						
Can the Rudder be unshipped afloat?	Yes		Yes						
KEELSONS & STRINGERS.									
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate									
Rider Plate									
Bulb Plate to Intercoastal Keelson									
Horizontal Plates on Floors									
Angles									
SIDE KEELSON, Angles									
Bulb or Plate above floors, for lng.									
Intercoastal Plate, for length									
Attached to outside Plating with Angle									
BILGE KEELSON, Angles									
Bulb or Plate above floors, for lng.									
Intercoastal Plate for length									
Attached to outside Plating with Angle									
BILGE STRINGER Angles									
Bulb Plate for length									
Intercoastal Plate for length									
Attached to outside Plating with Angle									
SIDE STRINGERS Angles, 3 in. dia.	6 1/2	4 1/2	13-12	6 1/2	4 1/2	13-12			
Bulb or Intercoastal Plate, for full lng.	27		11-10	27		11-10			
Attached to outside plating with Angle	3 1/2	3 1/2	10-9	3 1/2	3 1/2	10-9			
Upper Deck Stringer Plates, br'dth & thickness	58 1/2	4 1/2	10-9	58 1/2	4 1/2	10-9			
Angle on ditto	4 1/2	4 1/2	11-10	4 1/2	4 1/2	11-10			
Tie Plates fore and aft, outside Hatchways									
Deck, Iron or Steel, for full lng.	8-7		8-7			8-7			
Wood Deck, Material & thickness									
Middle Deck Stringer Plate, br'dth & thickness	58 1/2	4 1/2	10-9	58 1/2	4 1/2	10-9			
Angles on ditto, No.	4 1/2	4 1/2	9-8	4 1/2	4 1/2	9-8			
Tie Plates outside Hatchways									
Diagonal Tie Plates on Bms., No. of prs.									
Deck, Iron or Steel, for full lng.	8-7		8-7			8-7			
Wood Deck, Material & thickness									
Lower Deck Stringer Plate, br'dth & thickness									
Angles on ditto, No.									
Tie Plates, outside Hatchways									
Deck, Material and thickness									
Hold, or Orlop Stringer Plate, br'dth & thickness									
Angles on ditto, No.									
Tie Plates outside Hatchways									
Deck, Material and thickness									
Poop Deck Stringer Plate, breadth & thickness	38		7	38		7			
Angle on ditto	3 1/2	3 1/2	9-7	3 1/2	3 1/2	9-7			
Tie Plates									
Deck, Material and thickness	Steel		7			7			
Bridge Deck Stringer Plate, br'dth & thickness	44		8	44		8			
Angle on ditto	3 1/2	3 1/2	9	3 1/2	3 1/2	9			
Tie Plates									
Deck, Material and thickness									
Forecastle Deck Stringer Plate, br'dth & thickness	38		7	38		7			
Angle on ditto	3 1/2	3 1/2	9	3 1/2	3 1/2	9			
Tie Plates									
Deck, Material and thickness	Steel		3			3			

BULKHEADS.

	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
W. T. BULKHEADS	6	8-7	9 x 3 1/2 x 19	20 3/4	50
PARTITION	1	1 1/2	8 1/2 x 3 1/2 x 10	20 3/4	50
LONGITUDINAL			as approved		
Are the outside Plates doubled two spaces of Frames in length?			App'd lines		
Are the Stowage Vales and Watertight Doors in efficient working order?			Yes		

PLATING.										RIVETING.											
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.										
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		THICKNESS.		SINGLE OR DOUBLE.		BREADTH OF LAP.		RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	
FLAT PLATE KEEL.....	42	22	14	15	42	22-14	50L	6	1	4 1/8	Double	1 1/8	2 1/2	15-14	10 1/2	10	10	10	10	10	10
GARBOARD OR A STRAKE...	48	15	13	14	48	15-13	"	5 1/4	7/8	3 1/8	"	1 1/8	3 1/8	"	9	"	"	"	"	"	"
State actual thickness in way of Double Bottom.	B	12	10	13	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
C	11	10	10	1	12-9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
D	12	11	14	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
E	13	10	11	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
F	14	11	15	"	14-11	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
G	13	10	15	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
H	13	10	14	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
J	12	9	12	"	12-9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K	13	10	13	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
L	12	9	12	"	12-9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
M	13	10	13	"	13-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
N	14	9	9	"	14-9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
O	44 1/2	16	11	11	44	16-11	50L	3	7/8	3 1/8	Double	1 1/8	3 1/2	"	10 1/2	"	"	"	"	"	"
P	9	"	"	"	9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Q	9	"	"	"	9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
R	9	"	"	"	9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
DOUBLING OF Flat Plate Keel	Increased thickness in line																				
Length and thickness of Bilges	"																				
Length and thickness of Sheerstrakes	"																				
Length and thickness of Strake below	"																				
POOP SIDES	8-9	10	10	7	8-9	7	50L	2 1/2	3/4	3 1/8	50L	3/4	2 1/2	"	5	10	10	10	10	10	10
BRIDGE SIDES	8-9	10	10	7	8-9	7	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
FORECASTLE SIDES	8-9	10	10	7	8-9	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. *James Watson & Co. Ltd. Glasgow, Scotland.*

Has the Steel been tested as required by the Rules? *Yes, James Watson & Co. Ltd.*

FRAMES extend in one length from *centre girder* to *margin plate* & from *margin plate* to *weather deck*.

REVERSED FRAMES on floors and frames extend from *centre girder* to *margin plate* and from *margin plate* to *upper & main deck alternately* at *forecastle* & *main deck* to *upper* in *after peak*.

MASTS, SPARS, &c.

LOWER MASTS.....	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Heads.	Number.		Size.	Seams.	Butts.	
Fore	Steel	54.10	22 1/2	22 1/2	17	2			50L	50L	
Main	Steel	57.4	22 1/2	22 1/2	17	2			50L	50L	
Mizen											

Bowsprit.

Topmasts, Yards and Remainder of Spars *Pine Pine*

Rigging, Material and Size, *Shrouds 2 1/4 - 3 1/4, 3 1/4 - 4 1/4, 4 1/4 - 5 1/4 Steel wire. Stays 3 - 4 1/4, 4 1/4 - 5 1/4 Steel wire.*

Sails. *One* Suit of *fore & aft* Sails, and the following spare sails

EQUIPMENT No. *42904* LETTER *20*

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.				lbs.
895	1st Bower	54	2	21	48	4	14	48	4	14	48	4	14	Byers patent	W. & A. W. & Co. Ltd. 1901/12/10	1901/12/10	
714	2nd "	54	1	0	50	15	0	14	5	4	20	0	50	"	28/11/07	50	
905	3rd "	46	1	0	50	40	0	14	4	6	1	0	50	"	21/12/07	50	
	4th "													"	Hammer drop & bend		
	Collective weight	158	0	21	148	19	14	158	1	0							
46781	Stream	13	1	7	3	0	24	15	1	2	7	12	3	0	Iron stock	H. & W. & Co. Ltd. 1901/12/10	1901/12/10
46790	Kedge	6	2	4	1	3	9	8	17	2	0	6	2	0	"	"	1901/12/10

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.		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.
			Tons.	Per Table 22.	Supplied.	Per Table 22.									
31523	135	2 1/8	13.500	205.1	13.500	205.1	270 x 2 1/8	Steel	H. & W. & Co. Ltd.	N. 19/12/02 H. & W. & Co. Ltd.	TOWLINE	120	4 1/2	39	120 - 4 1/2
31524	135	2 1/8	13.500	205.1	13.500	205.1	270 x 2 1/8	Steel	H. & W. & Co. Ltd.	N. 19/12/02 H. & W. & Co. Ltd.	HAWSER	240	3 1/8	15	240 - 3 1/8
	90	4 1/2	39		90 - 4 1/2						WARP	240	4	7	240 - 4

Boats *Two life & two others*

Pumps, Number *1* *Donkey* Diameter of Barrel *6" 8.5"* State whether they are in efficient working order *Yes*

Windlass is *Iron patent* Capstan

Engine Room Skylights.—How constructed? *Steel*

What arrangements for deadlights in bad weather? *Steel shutters & deadlights*

Coal Bunker Openings.—How constructed? *Steel coamings* How are lids secured? *3 battened down* Height above deck? *18"*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *2.9 x 1.3 9 each side, one 24 x 1.0. 6 scuppers 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 coamings* Hatches, If strong and efficient? *Yes*

State size No. 1 Hatch (Forward) *20.10 x 14.9* No. 2 Hatch *25.0 x 15.2* No. 3 Hatch *25.0 x 14.9* No. 4 Hatch *20.10 x 14.9*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *2 Web plates & 3 fore & afters in each hatchway.*

No. of Breasthooks *9*

Bulwarks, height above deck and description *4.6 Steel plating* Main Rail, material and size *6 x 3 x 1/2 No. 10 Bull angle*

The above is a correct description

Builder's Signature (here only) *W. & A. W. & Co. Ltd.* 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 1.3.01

Workmanship. Are the butts of plating planed or otherwise fitted? *Lapped and planed*

Is the riveted work properly closed? *Yes*

Are the liners between the frames and plates solid single pieces? *Yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched to plate, &c., conform well to each other? *Yes*

Do the holes for riveting plate to frames, butt straps, or plate 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 and the approved plans. The workmanship and materials are good throughout

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* ft., R.Q.D. or Break *4* ft., Bridge Dk. *10.3* ft., F'castle *38.6* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Not 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 Dks (Std) and 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 or with girders on floors *Cell Dks*

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	118.9	310	Fore peak tank,	2.9	85
Double bottom, under Engines and Boilers,	43.9	180	After peak tank,	10.6	35
Double bottom, if under Engines only,			Midship deep tank,	22.2	75.5
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	143.9	410	(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. *456*

Date *31 May 1901*

No. *186* in builder's yard.

Dates of Surveys held while building

1901. Apr. 18, 22, 29, May 2, 8, 14, 17, 21, 22, 24, 28, 29, June 4, 13, 17, 18, 21, 24, 26, July 1, 2, 5, 11, 24, 29, Aug 5, 12, 16, 22, 26, Sep. 2, 5, 9, 11, 12, 13, 17, 19, 25. Oct. 2, 3, 10, 15, 18, 21, 25. Nov. 5, 7, 14, 15, 18, 22, 25, 27. Dec 4, 10, 20.

1902. Jan 5, 13, 14, 17, 24, 25, 28, 30, Feb 3, 4, 6, 10, 11, 12, 13, 17, 20, 24, 28. Mar 3, 6, 13, 17, 20, 22. 25, 27. Apr 3, 4, 5, 7.

Total No. of Visits *89*

The amount of Entry Fee *£ 5 : 0 : 0* 4 Apr. 1902

Special Survey Fee *£ 128 : 16 : 6* Received by me, *17.4.02*

Travelling Expenses if any £ : : *17.4.02*

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

I am of opinion this Vessel should be Classed *100 A.1. Steel.*

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

Committee's Minute *TUES. 15 APR 1902*

Character assigned *100 A.1 (Steel)*

Lloyds A.S.B.P. + L.M.B. 4.02

E. J. Milton

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

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