~~Awning or~~ Shelter Deck, ~~or Pt. Awning Deck.~~

STEEL STEAMER.

No. 10004

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

Port of ____ Date of completion of Report ____ Received at London Office ____

Survey held at Howdon Newcastle Date, First Survey 3rd May 1916 Last Survey 21st June 1917

On the (State if Single, ~~Twin, or Triple~~ Screw) Steamer Clan Mackenzie Rig Schooner

TONNAGE under Tonnage Deck 4761.72
Do. between Tonnage Dk and 3rd, 4th, or ~~Lower~~ Dk. 1554.97
Total under ~~Upper~~ Dk. 6316.69
Do. of Poop ____
Do. of ~~Bridge~~ Dk. ____
Do. of Bridge House 3.67
Do of Forecastle ~~Houses~~ 8.66
Do. of Houses on Deck 180.38
Do. of excess of Hatchways 38.27
Do. above Crown of Engine Room ____
Gross Tonnage 6544.07
Deduct Crew Space 224.01
Do. above Crown of Engine Room ____
Tonnage for Fees 6320.06
Deduct Engine Room 2094.10
Do. Navigation Spaces 84.13
Register Tonnage *Cut on Beam* 4141.83

CLASS 100 A1 Shelter Dk

	Feet.
Breadth *(greatest moulded)*	53.16
Depth, *at middle of length from top of keel to top of beams at side of uppermost Continuous Deck*	39.00
Deduct *height of 'tween deck when this does not exceed 8ft.*	8.00
Transverse Number	84.16
Length *on deck from fore part of stem to after part of sternpost*	419.42
Longitudinal Number	35298
Depth "d" *at middle of length. See Secs. 2 & 13*	18.0
Proportions, *Depths to Length, Uppermost Continuous Deck at side to top of keel*	10.76
" " " *Upper Deck at side to top of keel*	13.7

Master G. Young
Year of Appointment (1) As Master in service of owner of present vessel: 191 (2) As Master of this vessel 191
Built at Howdon, Newcastle
When built 1917 Launched 20th April 1917
By whom built Northumberland S.B. Co.
Owners The Clan Line Steamers Ltd
Managers
(Where necessary to be entered in Reg. Book.)
Residence 109 Hope St. Glasgow
Port belonging to Glasgow

Destined Voyage Montreal If Surveyed while Building, Afloat, or in Dry Dock Yes

	Ft.	Ins.		Ft.	Ins.		Ft.	Ins.	
LENGTH on Dk as per Rule	419	5	**BREADTH** — Moulded	53	2	**DEPTH, ACTUAL** — Top of Floors to top of ~~Awn. or~~ Shelter Dk. Beams	36	5	No. of Decks with flat laid 2 Sh Dk
						Do. do. Upper Deck Beams	24	11	No. of Tiers of Beams 2 Sh Dk

Dimensions of Ship per Register, Length 420.1 breadth 53.45 depth. 36.35 ~~Awn. or~~ Shelter Dk. / 24.85 Upper Deck.
Moulded depth, ft. 39 ins. 0 To ~~Awning or~~ Shelter Dk. Moulded depth, ft. 30 ins. 6 To Upper Dk.
Round up of Uppermost Dk. Beam, Actual .. 13 ins

FRAMING

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Approved.	Inches per Rule Approved.
	'tween dk angles 6½	3½	38	6½	3½	38
FRAME, Angles, ~~or E or~~ L Bars, amidships	10	3½	54	10	3½	54
	In Mach. Space					
Do. in peaks A 8 x 3½ x 12.7 F	8	3½	48	7½	3½	48
Do. in way of Double Bottoms at Solid Floors	3½	3½	42	3½	3½	42
" " at intermdt. Bkts.	7½	3½	44	7½	3½	44
Spacing of Frames from centre to centre amidships	26½			26½		
" " " " from ⅜ length to collision bulkhead	26½	22		26½		
" of Frames from centre to centre in peaks	22 F	24 A		24		
REVERSED FRAME, Angles	where not flanged					
Do. in way of Double bottoms at Solid Floors	3½	3½	42	3½	3½	42
" " at intermdt. Bkts.	7½	3	40.50	7	3	40.50
FRAMING, depth of girder	10			10		
FLOORS, depth and thickness of Floor Plate at mid-line for ¾ length amidships						
" in way of Engine and Boiler spaces						
" thickness at the ends of vessel						
" depth at ¾ the half-bdth. as per Rule						
" height extended at the Bilges						
FLOORS, in **Cell Double Bottoms**	40			40		
" state if flanged (top and bottom)	Yes Top					
" spacing of Solid	19½			19½		
CENTRE GIRDER, in Dbl.bottom.,dpth.&thicknss	44		52	44		52
" " Angles, Top	4½	4½	60.62	4½	4½	60.62
" " " Bottom. 2	4½	4½	60	4½	4½	60
" " " to Floors	5	5	58	5	5	58
" Brackets at intermdt. frmg., wdth & thknss	42		40	42		40
SIDE GIRDERS, number and thickness	2		40	2		40
" state if flanged (top & bottom)	Yes Floors.					
Angles	3½	3½	42	3½	3½	42
MARGIN PLATE, depth (exclusive of flange) and thickness	36½		48	35		48
" Angles to outside plating	4	4	48	4	4	48
" " to floors	5	3½	42	5	3½	42
" Brackets at intermdt. frmg., wdth & thknss	36		40	36		40
" Height of Brackets above at bilge	34			34		
INNER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**	68	52	56	68	52	42
" " thickness in Engine and Boiler space	50 E	56 B		50 E	56 B	
" " " Remainder in Holds	40	36		40	36	
BEAMS, ~~Awng or~~ **Shltr Dk,** ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	8½	3	30	8½	3	30
Spacing	26½			26½		
BEAMS, Upper Deck, ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	11	3½	56	11	3½	56
Spacing	53			53		
BEAMS, Second, ~~Third & Fourth~~ Deck, ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	12	4	80	12	4	80
Angles on upper edge						
" Spacing	53			53		
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge						
" Spacing						
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge						
" Spacing						
BEAMS, Forecastle Deck, ~~Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	8½	3	40	7½	3	42
" Angles on upper edge						
" Spacing	22			22		

PILLARS.

	Inches. Size in Ship.	Inches. Spacing in Ship.	Inches. per Rule. Or as	Inches. per Rule. Approved.
PILLARS, In 'tween Deck, size and spacing Shelter	2⅞	53	2⅞	53
" " **Hold & Upper 'tween dks** "	Wide spaced bulb pillars as per approved plan			
" **Quarter, 'tween Dks.,** " "				
" " **in Hold** " "				

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Approved.	Inches per Rule Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate						
" Rider Plate						
" Flat Keel Plate Angles						
" Horizontal Plates on Floors						
" Angles or Bulb Angles						
SIDE KEELSONS, Number						
" Angles or Bulb Angles						
" Plate above floors, for length						
" Intercostal Plate, for length						
" Attached to outside plating with Angle						
BILGE KEELSON, Angles						
" Intercostal Plate, for length						
" Attached to outside plating with Angle						
SIDE STRINGERS, Number						
" " Angle						
" " Intercostal Plate, for lng.						
" Attached to outside plating with Angle						
~~Awning or~~ **Shelter Deck Stringer Plates,** breadth and thickness	56 x 56		56	56		
" Angle on ditto	5x5	60	5x5	60		
" Tie Plates, fore and aft, outside Hatchways						
" Deck.* ~~Iron or~~ Steel, for full lng.	40	34	40	34		
" Wood Deck. Material & thickness						
Upper Deck Stringer Plate, breadth and thickness	48	48	48	48		
" Angles on ditto, No. 2	3½ x 3½	48	3½ x 3½	48		
" Tie Plates, outside Hatchways						
" Deck.* ~~Iron or~~ Steel, for full lng.	40	36	50	40	36	50
			as Hatchways			
" Wood Deck. Material & thickness						
Second Deck Stringer Plates, br'dth & thickn's	48	44	48	44		
" Angles on ditto, No. 2	3½ x 3½	48	3½ x 3½	48		
" Tie Plates, outside Hatchways						
" Deck.* Material and thickness Steel	34	30	34	30		
Third, Fourth & Fifth Deck Stringer Plate, breadth and thickness						
" Angles on ditto, No.						
" Tie Plates, outside Hatchways						
" Deck. Material and thickness						
Poop Deck Stringer Plate, breadth & thickness						
" Angles on ditto						
" Tie Plates						
" Deck. Material and thickness						
Bridge Deck Stringer Plate, br'dth & thickness						
" Angle on ditto						
" Tie Plates						
" Deck. Material and thickness						
Forecastle Deck Stringer Plate, b'dth & th'kns	36	36	36	36		
" Angle on ditto	3½ x 3½	36	3½ x 3½	36		
" Tie Plates						
" Deck. Material and thickness Steel		26		26		

* *If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.*

Form No. 1B.—5c,1,14. T.

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W515-0039

WEB FRAMES.	Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing	11 As per Profile plan		
" " " brdth. & thickness	24 × ·38 flanged on face		
" No. of Side Stringers " "			
WEB-FRAMES, In E. & B. Space, No. & spacing			
" " " brdth. & thickness			
WEB-FRAMES, In After Body, No. and spacing			
" " " brdth. & thickness			
" No. of Side Stringers " "			
Size of Face Angles to Web-Frames			
BRACKET PLATES to Stringers between Web Frames, depth and thickness			

FORGINGS or CASTINGS.	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar, depth and thickness		
STEM, moulding and thickness	10 × 2 29/32	10½ × 2¾
STERN-POST for Rudder do. do.	9 × 8	9 × 8
" for Propeller	10½ × 8	10½ × 8
RUDDER—A×D* Table 22. Speed 11 Knots	503	
" Main-Piece, diameter at head	10	10
" " " at heel	7½	7

RUDDER, how constructed Single plate, round stock arms shrunk on

" Thickness of ~~Plates or~~ Single Plate 1·04

Can the Rudder be unshipped afloat? Yes

BULKHEADS.	Number. Vessel.	Number. Per Rule.	Thickness.	Stiffeners Horizontal Size.	Horizontal Spacing	Vertical Size.	Vertical Spacing	Single or Double Frames.	Height up, state deck.
			Inches.	Inches.	Inches.	Inches.	Inches.		
W.T. BULKHEADS	7	6							
After peak 11			·40 ·34	S B beam		9 × 3 × ·50 / 4 × 3 × ·34	24	Sgl.	U Dk
40 – 152			·34 ·26			10 × 3½ × ·54	30	"	"
64 – 80			·38 ·26	Vert webs		4 × 3 × ·34 / [illegible]	24	"	"
112			·34 ·26			4 × 3 × ·34 / 10 × 3½ × ·57	30	"	"
" COLLISION 183			·44 ·26	9 × 3½ × ·48 S.B. beam		10½ × 3½ × ·56 / 4 × 3 × ·34 5" flange	24	"	Sh Dk
PARTITION "									
LONGITUDINAL "									

Are the outside Plates doubled two spaces of Frames in length? Brackets fitted

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes

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.? Open hearth
South Durham S & I Co Consett I Co Dorman Long & Co
Cargo Fleet I Co Palmers S & I Co
Tod[?]ingham I & S works Skinningrove I Co

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

PLATING. / RIVETING.

STRAKES.	As in Ship Amidship Breadth.	As in Ship Amidship Thickness.	Forward. Thickness.	Aft. Thickness.	Per Rule Amidship Breadth.	Per Rule Amidship Thickness.	Edges (Joggled) Single or Double.	Breadth of Lap.	Rivets Diam.	Rivets Spacing cr. to cr.	Butts Double or Treble and for what Length.	Butts Rivets Diam.	Butts Rivets Spacing cr. to cr.	Straps Breadth.	Straps Thickness.	If Lapped Breadth.	If Lapped For what Length.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.
FLAT PLATE KEEL (If Bar Keel, state Riveting.)	48	1·04	·72	·72	48	1·04	Dbl	6¾	1⅛	4 5/12	Quad	1⅛	3½			16	3/5 L
GARBOARD or A Strake		·66	·48	·64		·66	"	5¼	7/8	3 5/16	"	7/8	3½			12	½ L
B "		·66	·48	·64		·66	"	"	"	"	"						
C "		·66	·48	·64		·66	"	"	"	"	"						
D "		·66	·48	·64		·66	"	"	"	"	"						
E "		·66	·48	·64		·66	"	"	"	"	"						
F "		·66	·46	·64		·66	"	"	"	"	Tbl	"	3⅛			9	7 & 8 A
G "		·66	·46	·64		·66	"	"	"	"	"	"					
H "		·66	·46	·64		·66	"	"	"	"	"	"					
J "		·66	·46	·64		·66	"	"	"	"	"	"					
U Dk Sheer K "		·66	·46	·46		·66	"	6	1	3 11/14	Quad		3½			12	½ L
Sh Dk Sheer L "	88	·70	·46	·46	88	·70					"	1	4			14	¾ L
M "																	
N "																	
O "																	
P "		Strakes A B C & D are reduced ·02 where floors are on every frame															
Q "		" A B C maintain midship thickness to Collision bulkhead.															
R "																	
S "																	
T "																	
U "																	
V "																	
W "																	
TH'KNESS OF SH'RSTRKE CLEAR OF LONG BRIDGE																	
DO. OF STRAKE BELOW																	
DBLG. of Flat Plate Keel																	
" Sheerstrakes (Length and thickness.)																	
POOP SIDES																	
SHORT BRIDGE SIDES																	
FORECASTLE SIDES			·46			·46	Sgl	2½	¾	3	Dbl	¾	2⅝			5	

Write "Awning or Shelter Deck" "Sheer Strake" opposite its corresponding letter.

~~Awning or~~ Shelter Deck Stringer Plate: Butts, Tbl riveted for full length ~~amidship~~. ~~Straps, single, double or~~ overlapped for full length ~~amidship~~.

Upper Deck Stringer Plate: Butts, Tbl riveted for full length ~~amidship~~. ~~Straps, single or~~ overlapped for full length ~~amidship~~.

Butts of Side Stringers .... riveted.

" Tie Plates Dbl riveted.

Inner Bottom Plating, riveting of Edges Dbl & Sgl Butts Tbl & Dbl

Centre Girder Butts, Tbl riveted. Keelson Butts, ... riveted.

Frames, riveted through Plates with 7/8 & 1 in. Rivets, about 4½ & 6⅞ dia apart.

Rivets, state whether Iron or Steel Iron

FRAMES extend in one length from Margin plate to U Dk & scarphed to Sh Dk State if ordinary or joggled Ordinary

REVERSED FRAMES on floors and frames extend from Centre girder to Margin plate. Bulb angle frames above margin

State if ordinary or joggled Ordinary

MASTS, SPARS, &c.

	Material.	Total Length.	Diameter and Thickness At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles Number.	Angles Size.	Riveting Seams.	Riveting Butts.
LOWER MASTS Fore	Steel	55·3	31 × ·60	28 × ·54		21 × ·54	2			Sgl	Tbl
Main	"	57·4	26½ × ·60	25½ × ·54		17½ × ·54	2			"	"
Mizen											

Bowsprit

Topmasts, Yards and Remainder of Spars P. Pine

Rigging, Material and Size, Shrouds 3¾ 3½ G. S. W. Stays 4½ - 2½ G. S. W.

Sails. Suit of .... Sails, and the following spare sails

Form No. 12.

EQUIPMENT No. 38464 LETTER a+.

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex. Stock Cwts.	qrs.	lbs.	Weight of Stock Cwts.	qrs.	lbs.	Test, per Certificate Tons.	cwts.	qrs.	lbs.	Weight Req. by Table 31 Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
21466	1st Bower	68	3	7	—			53	5	0	0	68	—	—	Byers Stockless	W L Byers & Co	LPHS 14/2/17 L Haffner
21421	2nd "	68	0	14	—			52	15	2	14	68	—	—	" "	"	" 2/2/17 "
21465	3rd "	58	3	14	—			47	13	3	0	58	2	—	" "	"	" 14/2/17 "
	Collective weight	195	3	7								194	2				Hammer drop & bend tests
22778	Stream	19	3	14	4	3	24	20	12	3	7	19	—	—	Rodgers	R Sykes & Son Ltd	" CH 10/7/16 S C Paul
22779	Kedge	8	1	0	2	1	0	10	7	2	0	8	—	—	"	"	" " 10/7/16 "

If Patent state Name of Patentee. If Stockless state Mechanical Tests.

CHAIN CABLES. / HAWSERS AND WARPS.

Number of Certificate.	Length and Size supplied Length.	Diam.	Test per Certificate Statutory.	Breaking.	Weight of Chain Cable Supplied.	Per Rule.	Fathoms and Size Per Table 31 Length.	Diam.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Fathoms.	Ins.			
12587	240	2 5/16	96¼	134¾	650-0-0	720-3-4	270	2 5/16	Stud	R Sykes & Son Ltd	A Green LPH LW 19/9/16
9755	30	2 5/16	"	"	79-1-0				"	"	S. 30/8/16 L Haffner
Iron Stream Chain or Steel Wire	90	5 Cir.		59			90	5 Cir.			

Material.	Length and Size supplied Length.	Cir.	Breaking Test of Steel Wire Towline.	Fathoms and size per Table 31 Length.	Cir.
	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
TOWLINE	120	5¼	65	120	5¼
HAWSERS & WARPS	90	3½	26	90	3½
" "	90	3	18	90	3
" "	2@ 90	2¾	15½	2@ 90	2¾
	2@ 90 × 8	[illegible]	2@ 90 × 7	Manilla	

Boats 4 Life boats Steering Gear, Steam Good Steering Gear, Hand Good

Pumps, Number 11 - 6" Downton & 1 - 4" Lift Diameter of Barrel .... State whether they are in efficient working order Yes

Windlass is Iron patent Capstan

Engine Room Skylights.—How constructed? Steel plates & angles What arrangements for deadlights in bad weather? Steel shutters & lights

Coal Bunker Openings.—How constructed? Steel plates & angles How are lids secured? Battened Height above deck? 30"

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Part open rails on Shelter Dk & 4 Scuppers each side

Ceiling in Holds, thickness and material 2½ W.P. .... on timbers Cargo Battens, thickness and material 1½ × 2 W.P. not fitted in Sh tween decks

Cargo Hatchways.—How formed? Steel plates & angles Hatches, If strong and efficient? Yes.

State size No. 1 Hatch (Forward) 5 & 6 26·6 × 18·0 No. 2 Hatch 26·[illegible] × 18·0 No. 3 Hatch 13·3 × 18·0 No. 4 Hatch 15·5½ × 18·0

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 4 Shifting beams in Nos 1, 2, 5 & 6 & 2 in Nos 3 & 4. No fore & afters

No. of Breasthooks 9 No. of Crutches 2 & Deep floors

Bulwarks, height above deck and description Steel plates 46 × 5/20 Main Rail and Stays, material and size Steel B.A. 6 × 3½ × 8/20

The foregoing is a correct description. FOR THE NORTHUMBERLAND SHIPBUILDING COMPANY, LIMITED.

Builder's Signature (here only) Richard Garlick 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 in any correspondence connected with the case)
M 26/6/16 30/10/16 19/7/16 23/8/16 20/12/16 23/2/17

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 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 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. 26, par. 20)? Yes State results of tests Good

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Good.

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.
On completion the vessel was placed in the Mercantile Dry Dock, her bottom & rudder examined cleaned and recoated.
The approved plans of Midship Section, Profile & deck with pillars & girders, Rudder, Bulkheads, Quadrant, Deep tank, Panting arrangements, strengthening of bottom forward, Hatch coamings, Hatch end pillar connections, Pumping plan are forwarded herewith.

Northwestern Miller Irue report 67264 Yard No 221
Southwestern Miller " " 67678 " 222 Yard No 238 now building
Clan Mackay " " 69515 " 229

The Surveyor should state the Number of Report and Name of any Sister Vessel built or Yard Number of any building.

The amount of Entry Fee ...... £ 5 : 0 : 0
Special Survey Fee ...... £ 183 : 0 : 0
Travelling Expenses, if any £ : :

Fees applied for, 28 JUN 1917. Received by me. 30/6/17 19 [initials] 2/7/17

Certificate to be sent to NEWCASTLE-ON-TYNE Date of issue 18.8.17.

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed ✠ 100 A. 1. Steel Shelter Deck

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

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

The Surveyors are requested not to write on or below the Committee's Minute.

Committee's Minute TUE - 3 JUL 1917

Character assigned 100 A1
Shelter Dk with fbd
Cargo battens not fitted
in shelter tween decks
+ LMC 6.17
F. D.
Lloyd's A & C P

Cert

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USIS-0039

Rpt. 4.

GENERAL REMARKS—(*continued*).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle on Shelter Dk 34 ft
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated Complete Shelter 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 should appear in the Register Book*) 2 Dks (Stl) & Shelter Dk (Stl)

Official No. 134849 ; Signal Letters . State if Machinery is fitted aft No.

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	146·9	450
Double bottom, under Engines and Boilers,		
Double bottom, if under Engines only,	26·5	125
Double bottom, if under Boilers only, Fore deep tank	44·2	212
Double bottom, forward,	150	518
	Total capacity of double bottom	1305

Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Fore peak tank,	22·0	124
After peak tank,	25·4	955
Deep tank, aft,		
Deep tank, forward,		
Other tanks, if fitted,		
(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. 4580
Date 9.3.1915
No. 231 in builder's yard.

Dates of Surveys held while building

1916 May. 30. 31. Jul. 4. 25. 27. Aug. 1. 4. 11. 14. 16. 21. 24. Sep. 5. 7. 14. 19. 21. 22. 28. Oct. 4. 6. 12.
23. 27. 30. Nov. 3. 9. 14. 22. 28. Dec. 8. 28. 1917 Jan. 9. 12. 16. 19. 23. 26. Feb. 1. 2. 5. 14. 16. 20. 21. 23. 27.
Mar. 5. 13. 16. 22. 27. 29. Apl. 5. 13. 23. 26. 30. May. 2. 8. 11. 24. 30. Jun. 6. 8. 11. 13. 14. 20. 21.

Total No. of Visits 71.

E. J. Milton
Surveyor's Signature

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