

# With or Without Disconnected Erections.

## STEEL STEAMER.

Received at London Office

THU. APR. 3-1919

Date of completion of report  
Survey held at

28<sup>th</sup> March 1919

Port of

NEWCASTLE-ON-TYNE

No.

71731

Date, First Survey

25<sup>th</sup> Sept 1917

Last Survey

17<sup>th</sup> March

1919

On the (State if Single, Twin, or Triple)

TONNAGE under

Tonnage Deck

Do. between Tonnage Dk.

and 3rd and 4th Dk.

Total under Upper Dk.

Do. of Poop

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Navigation Spaces

Boiler Room

Water Tonnage

at on Beam

CLASS

100AL

FEET.

Master

R. A. Parnis

Year of appointment

(1) As Master in service of  
owner of present vessel: 191

(2) As Master of this  
vessel: 1919

Built at

Dublin-on-Lyne

When built

1919

Launched

18<sup>th</sup> December 1918

By whom built

Palmer Shipbuilding Co. Ltd.

Owners

Cairn Line of Steamships Ltd.

Managers

Cairn Line of Steamships Ltd.

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

Residence Abenside House, Newcastle-on-Tyne.

Port belonging to

Newcastle-on-Tyne.

Breadth (greatest moulded)

52.00

Depth, at middle of length from top of keel to top of

31.00

upper deck beams at side

Transverse Number

83.00

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

400.00

stern post

Longitudinal Number

33200

Depth "d," at middle of length (See Secs. 2 & 13)

18.40

Proportions—Depths to Length—Upper Deck Beam at

12.90

side to top of keel

" " Long Bridge Deck

10.20

Beam at side to top of keel

Destined Voyage

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

Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Feet.	Inches.	No. of Decks with flat laid
400	-	Moulded	52	-	Top of Floors to top of Upper Dk. Beams	28	6	Two
					Do. do. do. do. Second Dk. Beams	19	6	Two

Moulded depth, ft.	38	ins.	11 1/2	To Bridge Dk.	Round of Upper	13	ins.
Moulded depth, ft.	31	ins.	0	To Upper Dk.	Dk. Beam, Actual		

FRAMING.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	PILLARS.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
ME. Angles, or Bars amidships	10	3 1/2	46	10	3 1/2	46	PILLARS In 'tween Deck, size and spacing	3 1/2	4 1/2	3 1/2	4 1/2	4 1/2
" in peaks	8	3	38	8	3	38	" " Hold	5 1/2	4 1/2	5 1/2	4 1/2	4 1/2
" in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	" " Quarter 'tween Dks.,					
" " at intermdt. Bkts.	9	3 1/2	42	9	3 1/2	42	" " in Hold					
ng of Frames from centre to centre amidships		26			26		KEELSONS & STRINGERS.					
" " from #		26			26		CENTRE LINE KEELSON, Vertical Plate above					
" " length to Collision bulkhead		24			24		" " floors, Through Plate, or Intercoastal Plate					
" " in peaks							" " Rider Plate					
ERSED FRAME, Angles							" " Flat Plate Keel Angles					
" in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	" " Horizontal Plates on Floors					
" " at intermdt. Bkts.	8	3	46	8	3	46	" " Angles or Bulb Angles					
ING, depth of girder		10			10		SIDE KEELSONS, Number					
ORS, depth and thickness of Floor Plate							" " Angles or Bulb Angles					
" at mid-line for # length amidships							" " Plate above floors, for length					
" in way of Engine and Boiler Spaces							" " Intercoastal Plate, for length					
thickness at the ends of vessel							" " Attached to outside Plating with Angle					
depth at 1/4 the half breadth, as per Rule							BILGE KEELSON, Angles					
height extended at the Bilges							" " Intercoastal Plate for length					
ORS in Cell. Double Bottoms	4 1/2	3 1/2	42	4 1/2	3 1/2	42	" " Attached to outside Plating with Angle					
state if flanged (top & bottom)							SIDE STRINGERS, Number					
Spacing of Solid floors		78			78		" " Angle	3 1/2	3 1/2	40	3 1/2	3 1/2
RE GIRDER, in Dbl. bottom, dpth. & thcknss.	4 1/2	3 1/2	42	4 1/2	3 1/2	42	" " Intercoastal Plate, for length	30	4 1/2		40	
" " Angles, Top	6	6	66	6	6	66	" " Attached to outside plating with Angle	6	6	40	6	6
" " Bottom	6	6	66	6	6	66	Upper Deck Stringer Plate, br'dth & thickness	80	7 1/2	35	44	80
" " to Floors	6	6	46	6	6	46	" " (clear of Bridge)	81	4 1/2		80	4 1/2
Brackets at intermdt. frmg., wdth & thcknss	3 1/2	3 1/2	42	3 1/2	3 1/2	42	" " (in way of Bridge)	6 1/2	5 1/2	48	6 1/2	5 1/2
GIRDERS, number on each side & thickness							" " Angle (clear of Bridge)					
" state if flanged (top and bottom)							" " Tie Plate at sides of Hatchways					
" " Angles (top and bottom)	3 1/2	3 1/2	40	3 1/2	3 1/2	40	" " Deck * Iron or Steel, for full lng.					
" " to Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	" " Thickness (clear of Bridge)	82	5 1/2	34	82	5 1/2
IN PLATE, depth (exclusive of flange)							" " (in way of Bridge)					
" and thickness							" " Wood Deck. Material & thickness					
" " Angle to Outside Plating							Second Deck Stringer Plate, br'dth & thickness					
" " Floors							" " Angles on ditto, No. 2	3 1/2	3 1/2	44	3 1/2	3 1/2
Brackets at intermdt. frmg., wdth & thcknss	3 1/2	3 1/2	42	3 1/2	3 1/2	42	" " Tie Plates outside Hatchways					
Height of Outside Brackets above at bilge							" " Deck * Iron or Steel, for full lng.					
BOTTOM PLATING, breadth and thickness of Middle Line Strake							" " Wood Deck. Material & thickness					
" " in Engine and Boiler space							Third Deck Stringer Plate, br'dth & thickness					
" " Remainder in Holds							" " Angles on ditto, No.					
Upper Deck, Single Angle, Bulb							" " Tie Plates outside Hatchways					
Angle, Plate, Tee Bulb, or Channel	9	3 1/2	52	9	3 1/2	52	" " Deck * Material and thickness					
In way of Long Bridge	9	3 1/2	52	9	3 1/2	52	Fourth and Fifth Deck Stringer Plate, breadth & thickness					
Spacing							" " Angles on ditto, No.					
Second Deck, Single Angle, Bulb							" " Tie Plates outside Hatchways					
Angle, Plate, Tee Bulb, or Channel	10	3 1/2	56	10	3 1/2	56	" " Deck. Material & thickness					
Spacing							Poop Deck Stringer Plate, breadth & thickness					
Third and Fourth Deck, Single Angle, Bulb							" " Angle on ditto	3 1/2	3 1/2	34	3 1/2	3 1/2
Angle, Plate, Tee Bulb, or Channel							" " Tie Plates					
Angles on upper edge							" " Deck. Material and thickness					
Spacing							Bridge Deck Stringer Plate, br'dth & thickness					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	38	8	3	38	" " Angle on ditto	6 1/2	4 1/2			
" " Angles on upper edge							" " Tie Plates					
Spacing							" " Deck. Material and thickness					
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	52	9	3 1/2	52	Forecastle Deck Stringer Plate, br'dth & th'kns					
" " Angles on upper edge							" " Angle on ditto					
Spacing							" " Tie Plates					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	56	9	3 1/2	56	" " Deck. Material and thickness					
" " Angles on upper edge												
Spacing												

008917-008924-0062 1/2



PLATING.										RIVETING.									
AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES. Ordinary or Jogged? <i>Ordinary</i>				BUTTS.									
AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		RIVETS.		RIVETS.		STRAFS.		IF LAPED.					
Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or Loc.	Double or Triple and for what Length.	Diam.	Spacing or Loc.	Breadth.	Thickness.	Breadth.	For what Length, Feet.			
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.				
FLAT PLATE KEEL.....	47	1.00	.70	.70	47	1.00 5.70	Double	6 1/2	1 1/2	1 1/2	Quad	1 1/2	1 1/2		16	full			
GARBOARD OF A Strake	40 1/2	.66	.58	.66		.66 5.08	"	5 1/2	7/8	3/4	Quint 1/2	7/8	3/4		15	"			
Store actual thickness in ins. of Double Bottom.	B	83 3/4	.66	.48	7 1/4	"	"	"	"	"	Quad	"	"		12	"			
	C	83 3/4	.66	.48	5 1/4	"	"	"	"	"	"	"	"		"	"			
	D	66 1/2	.66	.54	7 1/2 2.00	"	"	"	"	"	"	"	"		"	"			
	E	66 1/2	.64	.44	.64	.64 1.44	"	6	"	"	Triple	"	3/8	✓	9	"			
	F	70	.64	.44	.64	"	"	6	"	"	"	"	"		"	"			
	G	70 1/2	.64	.44	.64	"	"	6	"	"	"	"	"		"	"			
	H	70 1/2	.64	.44	.64	"	"	6	"	"	"	"	"		"	"			
	J	67 1/2	.64	.46	.46	.64	"	6	"	"	"	"	"		"	"			
Upper 8" Double Bottom	K	47 1/2	.64	.46	.46	.64	"	6	"	"	"	"	"		"	"			
Bridge 8"	L	95	.68	.60	.38	.68	—	—	—	—	Quint 1/2	1	1 1/2	✓	17 1/2	Bridge			
	M																		
	N																		
	O																		
	P																		
	Q																		
	R																		
	S																		
	T																		
	U																		
	V																		
	W																		
THICKNESS OF SHEERSTRAKE CLEAR OF LONG BRIDGE	47 1/2	1.00 5.46			47	1.00 5.46	Double	6	1	1 1/2	Quint 1/2	1 1/2	5	✓	19 1/2	full			
DO. OF STRAKE BELOW	67 1/2	1.00 5.46				1.00 5.46	"	6	1	1 1/2	Quad	1	1 1/2	✓	14 1/2	full			
DELEG. of Flat Plate Keel																			
" Sheerstrakes	39	1.00 7 1/4	✓																
Length and thickness.																			
POOP SIDES .....		.38	✓		.38	Single	3	3/4	3	Double	3/4	2 1/2	✓		5				
STERN BRIDGE SIDES .....	98	.68	✓			Double	6	1	1 1/2	Quint 1/2	1	1 1/2	✓		17 1/2	full			
FORECASTLE SIDES .....		.40	✓		.40	Single	5 1/2												

MASTS, SPARS, &c.										
Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
		At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Buts.
Steel	35'-0"	—	24x40	21" + 10 added	2	3	4x3x50	Single 25"	Double 7 1/2"	
Steel	35'-0"	—	24x40	21" + 10 added	2	3	"	"	"	

Mainmast 37'-0" Fore Mast 35'-0"  
 Back stays 2 1/2" S.W. Fore stays 2 1/2" S.W. Stays 44 - 48 wire stays on each mast.  
 Sails, and the following spare sails.

CHAIN CABLES.												HAWSEERS AND WARPS.						
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Table 31.		Position.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire Towline.		Length and size per Table 31.	
	Length.	Diam.	Stations.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Size.	Length.	Size.	Length.	Size.
12477	1052	2 1/4	87 1/2	120 1/2	255-0-1	251-0-1	210	2 3/4	Strand	H. Wood & Co	14 Charles St	10/18	120	4 1/2	47	120	4 1/2	
12478	1045	2 1/4	86 1/2	120 1/2	253-3-23	251-0-1	210	2 3/4	"	"	" 22 1/2	"	2-90	2 1/2	15 1/2	2-90	2 1/2	
Iron Stream		Cir.						Cir.					230					
Steel Wire	90	4 1/2	47				00	4 1/2					2-15					

Boats *Four lifeboats and one dingy* Steering Gear, *Steam* *Douglas 12* Steering Gear, *Hand* *Amidships*  
Pumps, Number \_\_\_\_\_ Diameter of Barrel \_\_\_\_\_ State whether they are in efficient working order \_\_\_\_\_  
Windlass is \_\_\_\_\_ Capstan ☒  
Engine Room Skylights.—How constructed? *Steel plates and angles* What arrangements for deadlights in bad weather? *Bulle eyes*  
Coal Bunker Openings.—How constructed? *Steel plates and angles* How are lids secured? *Bottoms & cleats* Height above deck *2'-6" Bridge 9'-4 1/2"*  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *Sixteen* Twelve *4'-0" x 1'-6"*  
Ceiling in Holds, thickness and material *White wood one linch* Cargo Battens, thickness and material *2 1/2" x 1/2" Convex steel*  
Cargo Hatchways.—How formed? *Steel plates and angles* Matches, if strong and efficient? *Yes*  
State size No. 1 Hatch (Forward) *32'-6" x 26'-0"* No. 2 Hatch *34'-8" x 26'-0"* No. 3 Hatch *34'-8" x 26'-0"* No. 4 Hatch *30'-4" x 26'-0"*  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Six shifting beams in No. 1 & 3 and five in No. 4*  
No. of Breasthooks *Four & Decks* No. of Crutches *Deep floors*  
Bulwarks, height above deck and description *3'-2" Steel plates & 3 a. stags 8" x 3"* Main Rail, material and size *8" x 3" x 38 B.A.*  
The foregoing is a correct description.  
Builder's Signature *Geo W MacFarlane* Surveyor's Signature *F. R. Palmer* *Alfred Munro*  
*Palmer & Co. Surveyors* Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)  
*In accordance with letter having reference to this class of Standard vessel.*

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 faying surfaces? *yes* Do any rivets break into or through the seams or butts of the plating? *very few*

Are the butts of Plating, Stringers, &c., properly shifted and staggered? *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 approved plans for the Standard Vessels "B" type, and the Secretary's letter of the above mentioned date, and in general conformity with the rules. The materials and workmanship employed during the construction are of good quality.*

The Surveyor should state the Number of Report and Name of any Sister Vessel. *Request "Wm Spencer"*  
Plans to be forwarded with F.B. Report showing vessel as built.

The amount of Entry Fee . . . . . £	:	✓	:	Fees applied for,
Special Survey Fee . . . . . £	:	233	:	2.4.1919
Travelling Expenses, if any £	:	8	:	Received by me,
				14.4.1919

State whether the Vessel has been built under Special Survey *yes*  
I am of opinion this Vessel should be Classed *\* 100 A.L.*  
With, or without Freeboard, as condition of Class *without*

Certificate to be sent to *Newcastle* Date of issue *16.4.19.*

*H.R. Palmer.* *Alfred Munro*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 8-APR. 1919

Character assigned 100 A.I.  
Lloyd's A. & B. P. + L. No. 9. 19 A.D.  
Diam. of r  
Thickness  
How stayed  
year  
008917-008924-



GENERAL REMARKS—(continued).

*[Faint, mostly illegible handwritten text in the upper section of the page, likely bleed-through from the reverse side.]*

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop 49'3" ft., R.Q.D. ☒ ft., Bridge 112'8" ft., Forecastle 39'0" ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated The Poop is not joined to 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 Decks (Steel) 2 L.B.

Official No. 142828; Signal Letters ☒ State if Machinery is fitted aft Auxiliary  
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. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>125'6"</u>	<u>374</u>	Fore peak tank,	<u>21'5"</u>	<u>122</u>
Double bottom, under Engines and Boilers,	<u>39'0"</u>	<u>157</u>	After peak tank,	<u>24'8"</u>	<u>174</u>
Double bottom, if under Engines only,	—	—	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	<u>179'10"</u>	<u>581</u>	Other tanks, if fitted,	—	—
Total capacity of double bottom		<u>1112</u>	(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

Special Survey No. 14716

DATES of Surveys held while building

1917  
Sept 25, Oct 3, 4, 15, 29, Nov 13, 27, 28, Dec 5, 13, 28, 1918  
Jan 10, 15, 16, 17, 21, 29, 30, Feb 11, 14, 21, 28  
Mar 8, 13, 14, 27, Apr 3, 11, 12, 29, May 14, 30, Jun 4, 6, 10, 12, 17, 18, 19, July 1, 3, 5, 10, 12, 14,  
16, 22, 25, Aug 1, 8, 13, 15, 27, Sept 4, 11, 13, 24, Oct 21, 24, 30, Nov 5, 18, 19, 21, 22, Dec 3, 11  
5, 9, 12, 16, 18, 19 1919  
Jan 6, 22, 28, 30, Feb 12, 17, 25, Mar 3, 12, 14, 17

Total No. of Visits 84

Surveyor's Signature F. R. Palmer Alfred Munro Register Foundation