~~2 Dks., B.Q.Dk.,~~
~~Pt. Awng. Dk.~~

~~IRON OR~~ STEEL STEAMER.

No. 9098

Received at London Office, MON 5 JUN 1899

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

Date of completion of Report 2nd June 1899

Date, First Survey 25th April 1898

Port of Leith

Last Survey 29th May, 1899

Rig One small mast

Steamer "Claughton"

~~ONE OR TWO~~ DECKED VESSEL.

CLASS 100 A1

Master W. Williams

Year of appointment (1) *As master in service of owner of present vessel*—18 99 (2) *As master of this vessel* 18 99

Built at Kinghorn

When built 1898 & 99 Launched 30th May 1899.

By whom built J. Scott & Co.

Owners Municipal Corporation of Birkenhead

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

Residence Birkenhead

Port belonging to Liverpool

Destined Voyage Liverpool

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

Survey held at Kinghorn

the Steel Twin Screw Steamer "Claughton"

AGE under nage Deck	469.0	
Poop, Raised Qr. Break, Bridge House, Forecastle, Houses on Deck, xcess of Hatchways, ce Crown of ne Room		
Tonnage	469.00	
ew Space	32.63	
ve Crown of ne Room		
E FOR FEES	436.37	
gine Room	339.40	
igation Spaces	17.26	
er Tonnage on Beam	79.21	

	Feet.	Inches.
H on Deck as le	149	—
BREADTH—Moulded	38	—
DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams	11	4

No. of Decks with Flat laid One

No. of Tiers of Beams One

ons of Ship per Register, Length, 150.5 breadth, 41.0 depth, 11.3. Moulded Depth, 11 ft. 9 ins. Round of Beam, Actual 10 ins.

Half Breadth (*moulded*)	19.					
Depth *from upper part of Keel to top of Main Deck Bms.* (*with the normal round up of beam*)	12.58					
Girth *of Half Midship Frame* (*as per Rule*)	29.					
1st Number	60.58					
Length *on deck from after part of stem to fore part of stern post*	149.					
2nd Number	9026.					
Proportions—*Breadths to Length*	3.92					
Depths to Length—Main Deck to top of Keel	11.84					

FRAMING.

	Inches in Ship.	Inches in Ship.	Tenths or 20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Tenths or 20ths per Rule Approved.
E, Angles, ~~T, E or L Bars~~, for ⅔ length amidships	3½	3	7	3½	3	7
or ⅓ at each end	3½	3	6	3½	3	6
~~t way of Double Bottoms at Solid Plates~~						
" " ~~at intermdt. Plts.~~						
e of Frames from moulding edge to ling edge, all fore and aft		22			22	
RSED FRAME, Angles	2½	2½	6	2½	2½	6
~~**FRAMING,** depth of girder~~						
TS, depth and thickness of Floor Plate at mid-line for ⅔ length amidships		16	7		16	7
way of Engines and Boilers			8x9			8x9
ickness at the ends of vessel			6			6
epth at ⅔ the half breadth, as per Rule						
eight extended at the Bilges	As per approved Section					
~~**S & BRACKETS, in Cell Dble Bottoms**~~						
" Distance apart						
E GIRDER, in Double Bottom, depth and thickness						
" Angles, Top						
" " Bottom						
IRDERS, number on each side & thickness						
Angles						
N PLATE, depth (exclusive of flange) and thickness						
Angles to Outside Plating						
BOTTOM PLATING, breadth and thickness of **Middle Line Strake**						
" thickness in Engine and Boiler space						
" " Remainder in Holds						
Main ~~and Raised Quarter~~ Deck, gle ~~Angle, Bulb Angle, Plate or Tee~~ Bulb		8	7		8	7
Angles on Upper Edge	3	3	6	3	3	6
Average space		44			44	
~~**Lower Deck,** Single Angle, Bulb~~ Angle, Plate or Tee Bulb						
Angles on Upper Edge						
Average space						
Hold, Plate or Tee Bulb						
Angles on Upper Edge						
Average space						
Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb						
Angles on Upper Edge						
Average space						
Bridge or Pt. Awng. Deck, Angle, Bulb Angle Plate, or Tee Bulb						
Angles on Upper Edge						
Average Space						
Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb						
Angles on Upper Edge						
Average space						
S, In 'tween Decks, Size and Spacing	2⅜	44		2⅜	44	
" **Hold** " "	2¾	44			44	
~~**Quarter, 'tween Dks.,** " "~~						
" **in Hold** " "						
AMES, In Fore Body, No. and Spacing						
" " Brdth. & Thickness						
No. of Side Stringers " "						
AMES, In E. & B. Space, No. & Spacing						
" " Brdth. & Thickness						
AMES, In After Body, No. and Spacing						
" " Brdth. & Thickness						
No. of Side Stringers " "						
e of Angles or Tee Bars to **Web Frames**						
T PLATES to Stringers between rames, Depth and Thickness						

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule. Or as Approved.
~~**KEEL, Bar or Side Plates** depth and thickness~~		
STEM, moulding and thickness	6 x 1¾	6 x 1¾
STERN-POST for Rudder do. do.	6 x 2¼	6 x 2¼
~~for Propeller~~		
MAIN PIECE of **Rudder,** diameter at head	4½	4½
do. at heel	3½ x 2¼	3½ x 2¼

RUDDER, how constructed Ordinary Way

Can the Rudder be unshipped afloat? Yes

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	Tenths or 20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Tenths or 20ths per Rule Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, ~~Through Plate, or~~ Intercostal Plate		7½	7		7½	7
" ~~Rider Plate~~		19½	7		19½	7
" ~~Bulb Plate to Intercostal Keelson~~						
" ~~Horizontal Plates on Floors~~						
" Angles						
SIDE KEELSON, Angles	3½	3	6	3½	3	6
" ~~Bulb or Plate above floors for Ing.~~	3½	3	6	3½	3	6
" Intercostal Plate for half length			5			5
" Attached to outside plating with Angle	3	3	6	3	3	6
BILGE KEELSON, Angles						
" ~~Bulb or Plate above floors for len.~~						
" ~~Intercostal Plate for length~~						
" ~~Attached to outside plating with Angle~~						
BILGE STRINGER Angles	3½	3	6	3½	3	6
" ~~Bulb Plate for length~~						
" Intercostal Plate for length						
" Attached to outside plating with Angle						
SIDE STRINGER Angles						
" Bulb or Intercostal Plate for lng.						
" Attached to outside plating with Angle						
Main ~~and Raised Quarter~~ Deck Stringer Plate, breadth and thickness	40	7		40	7	
" Angle on ditto	3 x 3 x	7		3 x 3 x	7	
" Tie Plates fore & aft, outside Hatchways	12	6		12	6	
" ~~Diagonal Tie Plates on Bms., No. of Pairs~~						
" Main Dk* Iron or Steel for half lng.		5			5	
" ~~R. Q. Dk* Iron or Steel for lng.~~						
" Wood Deck, Material & thickness Teak	2			2		
~~**Lower Deck Stringer Plate,** breadth and~~ thickness						
" Angles on ditto, No.						
" Tie Plates, outside Hatchways						
" Deck* Material and thickness						
Hold Stringer Plate						
" Angles on ditto, No.						
Poop Deck Stringer Plate, breadth & thickness						
" Angle on ditto						
" Tie Plates						
" Deck, Material and thickness						
Bridge Deck Stringer Plate, brdth & thickness						
" Angle on ditto						
" Tie Plates						
" Deck, Material and thickness						
Forecastle Deck Stringer Plate, brdth & thckns						
" Angle on ditto						
" Tie Plates						
" Deck, Material and thickness						

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

BULKHEADS.

	Number. In Vessel.	Number. Per Rule.	Thickness, ~~Inches or~~ 20ths.	STIFFENERS. Horizontal. Size, Inches.	Horizontal. Spacing Inches.	Vertical. Size, Inches.	Vertical. Spacing Inches.	Single or Double Frames.	Height up.
W.T. BULKHEADS	7	7	5	3½ x 3½ x 7/20	48	3 x 3 x 7/20	30	Double	~~upper~~ deck
PARTITION "	✓								
LONGITUDINAL "	2	2	5	✓	✓	3½ x 3 x 3/20	30	✓	do.

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

Are the Sluice Valves and Watertight Doors in efficient working order? Yes, no sluices

~~I.A.~~ 6-96.

LTH S68-0140

PLATING. / RIVETING.

STRAKES.	As in Ship: Amidship Breadth (Inches)	Amidship Thickness (16ths or 20ths)	Forward Thickness	Aft Thickness	Per Rule or as Approved: Amidship Breadth	Amidship Thickness	Edges: Single or Double	Breadth of Lap (Inches)	Rivets Diam.	Rivets Spacing cr. to cr.	Butts: Double or Treble and for what Length	Rivets Diam.	Rivets Spacing cr. to cr.	Straps Breadth	Straps Thickness	If Lapped Breadth	For what Length (Feet)
Flat Plate Keel ~~(If Bar Keel, state Riveting)~~	42	11	9	10	42	11	Double	5¼	7/8	3½	Treble whole L	7/8	3⅛	16¾	13		
Garboard or A Strake	48	8	7	7	48	8	Do	4½	3/4	3⅛	Double do	3/4	2⅝	9¾	8		
B	57	7	6	6	57	7	Do	do	do	do	Do	do	do	do	7		
C	48	8	7	7	48	8	Do	do	do	do	Do	do	do	do	8		
D	57	7	6	6	57	7	Do	do	do	do	Do	do	do	do	7		
E	46	8	7	7	46	8	Single	2½	do	do	Treble ½ L	do	do	14¼	9		
F	54	7	6	6	54	7	Double	4½	do	do	Double	do	do	9¾	7		
G	51	10	8	8	51	10	Single	3	do	do	Treble ½ L	7/8	3⅛	16¾	11		
H																	
J																	
K																	
L																	
M																	
N																	
O																	
P																	
Doubling of Flat Plate Keel																	
Length and thickness of Bilges																	
of Sheerstrakes																	
of Strake below																	
Poop Sides																	
Raised Quarter Dk. Sides																	
Bridge Sides																	
Forecastle Sides																	
Lengths of Plating	7 frame spaces																

State actual thickness in way of Double Bottom. *Write 'Sheer Strake' opposite its corresponding letter.*

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.? Siemens Martin. Lanarkshire, Clydebridge, Dalziel Consett, Wishaw, Mossend.

Has the Steel been tested as required by the Rules Yes

Main Stringer Plate { ~~Butts~~, treble riveted for ½ length amidship. **Straps**, single, ~~double or overlapped~~ for whole length ~~amidship~~

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

~~**Inner Bottom Plating,** riveting of **Edges** **Butts**~~

~~**Centre Girder Butts,** riveted.~~ **Keelson Butts,** treble riveted.

Frames, riveted through Plates with ¾ in. Rivets, about 5¼" apart.

Rivets, state whether of Iron or Steel Iron

FRAMES extend in one length from longitudinal bulkhead to gunwale and are continuous across middleline

REVERSED FRAMES on floors and frames extend from middleline to side stringer & gunwale altntly; double in D.B. space

MASTS, SPARS, &c.

	Material.	Total length.	Diameter and Thickness: At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles: Number.	Size.	Riveting: Seams.	Butts.
Lower Masts…. Fore ~~Main~~ ~~Mizen~~	One Wood Pole Mast										
~~Bowsprit~~											

~~Topmasts, Yards and Remainder of~~ **Spars**

~~**Rigging**~~, Material and Size, **Shrouds** 1¼ . **Stays** do

~~**Sails.** Suit of Sails and the following spare sails~~

EQUIPMENT No. —— **LETTER** —— . ~~**TONNAGE**~~ **FOR TRAWLERS** ~~U.Dk.~~

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 Required by ~~Table 22.~~ or A. letter 30th Jan. 99 Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
16593	1st Bower	12	2	14	–			14	8	1	27	12	2	–	Stockless Lion Patent	I. Abbot & Co. Ltd	R Wks 27th May 99. J. Tindal
	2nd																
	3rd																
	Collective weight	12	2	14	–							12	2	–			
	Stream																
	Kedge																

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

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	Weight of Chain Cable: Supplied.	Per Table 22.	Fathoms and Size Per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.
8401	90	1⅛	34⅞ x 22¾	59.3.21	58.1.2	90 – 1⅛ approved per Secretary's letter 30.1.99	Stud Link	I. Abbot & Co	R Wks 7th Decr. 98 J. Tindal
Iron Stream Chain or Steel Wire									

HAWSERS AND WARPS.

Material.		Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Table 22.
Towline	Manilla	75	8		75 – 8
Hawser		60	6		60 – 6
Warp	–				

Boats One

Pumps, Number Nine Diameter of Barrel 6" State whether they are in efficient working order Yes, they are.

Windlass is Emerson, Walker & Thompsons Iron Patent **Capstan** None

Engine Room Skylights.—How constructed? Teak, well bolted down at height of Promenade Dk.

What arrangements for deadlights in bad weather? ✓

Coal Bunker Openings.—How constructed? Circular Cast Iron How are lids secured? By Stud & Check Height above deck? Flush

Number of **Scuppers,** and number and dimensions of **Freeing Ports, &c.** Each side 6 scuppers

Ceiling in Holds, thickness and material ✓ **Ceiling 'tween Decks,** thickness and material ✓

~~**Cargo Hatchways.**—How formed?~~ ~~**Hatches.**—If strong and efficient?~~

~~State size **No. 1 Hatch** (Forward) **No. 2 Hatch** **No. 3 Hatch** **No. 4 Hatch**~~

~~Number of **Web Plates, Shifting Beams,** and **Fore and Afters** to each Hatch~~

No. of Breasthooks 3 **No. of Crutches** 2

Bulwarks, height above deck and description 3' 8" of y. pine Main Rail, material and size 8 x 3½ Elm

The above is a correct description.

Builder's Signature (here only.) John Scott & Co *Surveyor's Signature* H. Paulsen

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

Form No. 1A.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with the case*) 1898:– 26th Jan.; 10th & 18th March m.; 12th & 23rd April; 8th Septbr. E; 28th Decbr. m; 1899:– 30th Jan.

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? 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 They are watertight

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? ✓ State results of tests ✓

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

Materials & Workmanship are Good.

This is in all respects a sister ship of Twin S.S. "Lancashire" (No 104) and is built in accordance with copy of approved plan of Midship Section forwarded to the Secretary on the 31st May '99 and in conformity with the Rules.

A Ship Forging Report on caststeel sternbrackets is hereto attached.

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 ft.,~~ Bridge Dk. 133 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

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) 1 Dk. (pd. Steel. Teak sheathed)

Official No. ; Signal Letters .

How are the surfaces preserved from oxidation? Inside Portland Cement, Bitumastic Enamel & 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.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	Deep Tank aft	11	27	~~Fore peak tank,~~		
~~Double bottom, under Engines and Boilers,~~				~~After peak tank,~~		
~~Double bottom, if under Engines only,~~				~~Midship deep tank,~~		
~~Double bottom, if under Boilers only,~~				~~Other tanks, if fitted,~~		
Double bottom, forward,	Deep Tank ford.	11	34	~~(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. 713

Date 26th March 1898

No. 105 in builder's yard

Dates of Surveys held while building: 1898:– April 25, May 13; June 7.20.25; Septbr. 12.16.22.27; Octbr. 4.10.14.20.26. Novbr. 3.9.17.23.29. Decbr. 7.13.19.23.29.
1899: Jan. 12.18.25.31. Febr. 7.13.20.27, March 3.9.16.17.28; April 3.11.17.24.28; May 4.10.16.23.29.

Total No. of Visits 47

The amount of Entry Fee £ 2 : – : –
Special £ 21 : 16 : –
Certificate* £ – : – : –
Travelling Expenses, if any £ 5 : 16 : – See copy

Fees applied for, 2nd June 1899
Received by me, 6/7/1899 8/P 7.7.99

* *Certificate to be sent to* Leith office.

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed ✠ 100 A1 "Steel"

~~With, or~~ without Freeboard, as condition of Class "For Ferry Purposes".

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

Committee's Minute TUES. 6 JUN 1899
Character assigned 100 A1 (Steel) for ferry purposes

Lloyds A & C A + LMC 5.99 Elec. light

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

Hull Certificate Written.

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