

## STEEL STEAMER or MOTORSHIP.

Received at London Office..

15 MAR 1933

State if Report has been sent on the Freeboard of the Vessel *yes*State if Report is sent on the Machinery of the Vessel *yes*

Date of completion of report

Port of

LIVERPOOL

No. 101922.

Survey held at

Birkenhead

Date First Survey

20<sup>th</sup> July 1932

Last Survey

23<sup>rd</sup> February 1933.

On the (State if Machinery fitted Aft and

Twin Screw Ferry Steamer "BIDSTON"

State Type (Full Scantling, Complete Superstructure

Full Scantling

State Type of Erections

house

TONNAGE under

484.46

CLASS

100 A.1.  
Ferry Purposes  
River Use only

State if with freeboard

yes

Built at

Birkenhead

Do. of space or spaces  
between Tonnage Dk.  
and Upper Dk.Length from fore part of stem to after part of stern  
post on summer L.W.L. See Sec. 3 (1a)

L 180.00

Launched 12<sup>th</sup> January 1933

Yard No. 988

Total

484.46

Breadth (greatest moulded)

B 40.91

Builders Messrs. Cammell Laird &amp; Co. Ltd.

Gross Tonnage

486.99

Depth, at middle of length from top of keel to top  
of beam at side of uppermost continuous  
deck. See Sec. 3 (1c)

D 11.75

Owners Municipal Corporation of Birkenhead

Net Tonnage

179.34

1st Longitudinal Number (L x D)

= 1762.5

Managers

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

2nd Numeral L x (B + D)

= 7899

Residence Birkenhead

REGISTERED DIMENSIONS.

FEET.

Framing Depth "d," at middle of length. See  
Sec. 3 (1d)

10.58

Port of Registry Liverpool

Length

180.4'

Proportions—Depth to Length—Uppermost con-  
tinuous deck to top of keel

12.76

If surveyed while building, afloat, or in dry dock

Breadth

41.0'

Do. Long Bridge to top  
of keel

7.3.4"

Depth

11.5'

Draught Moulded

7.3.4"

yes.

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b> .....	24 ✓		<b>Bracket Floors, Frame</b> .....		
" from $\frac{3}{8}$ length to Collision bulkhead.....	"		" " Reversed Frame .....		
" in peaks.....	"		" " Vertical Struts .....		
<b>FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		
<b>Frame Amidships, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....	Bottom 3½ 3 30 Sides 4½ 3½ 34		" " top Angles .....		
" Extends up to .....	Upper deck		" " bottom Angles .....	78	
<b>Reversed Frame Amidships, Angle</b> .....	2½ 2½ 30		<b>Side Girders, No. each side and thickness</b> .....		
" " Extends up to .....	Across Floor		<b>Margin Plate</b> depth (excl. of flange) and thickness .....		
<b>Depth of Framing Girder</b> .....	4½ ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem .....		
<b>Frames in Uppermost Continuous 'tween</b> <b>Decks, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....	6 ✓		" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem .....		
" <b>Second 'tween Decks, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....	8 ✓		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem .....		
" <b>Third " " " " " " " "</b> .....	8 ✓		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem .....		
<b>Spacing in Peaks, Angle <math>\frac{3}{4}</math></b> .....	4 3½ 30		<b>Tank Side Brackets, height above base line</b> at toe of Frame and thickness		
<b>Number and Spacing of Rivets through</b> <b>Frame and Shell Plating amid-</b> <b>ships</b> .....	¾ - 4/8 x 5/4		<b>INNER BOTTOM PLATING.</b>		
<b>Is Frame Joggled</b> .....	yes		Breadth and thickness of Middle Line Strake .....		
<b>FRAMING ARRANGEMENTS (Sec. 7), state</b> <b>system and particulars</b> .....	Side Stringers Flat		Thickness of remainder in Holds .....		
<b>STRENGTHENING OF BOTTOM FOR</b> <b>WARD. State Particulars</b> .....			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room? .....		
<b>DOUBLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Frames, Depth and thickness at mid-line in</b> <b>Holds</b> .....	14-30 E.S. 40 B.S. 48		<b>Uppermost Continuous Deck, amidships</b> in Wells, Angle, $\frac{3}{4}$ or $\frac{3}{8}$ .....	5x3x36 ANGLE @ 24" SPACING 6x3x34 B.A. " 48"	
Height of Brackets at side above base line at toe of frame .....			" " in way of Bridge, Angle, $\frac{3}{4}$ or $\frac{3}{8}$ .....		
<b>Double Line Keelson, on Floor, Angles,</b> <b><math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....	3 3 30 B.S. 40		Spacing .....	24 x 48	
" " Through Plate .....	34/24 B.S. 44		<b>Second Deck, amidships, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....	4 3 30	
" " Intercoastal Plate .....	12x30/24 B.S. 40		Spacing .....	48	
" " Foundation Plate on Floors .....	4 3 30/30		<b>Third Deck, amidships, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....		
" " Flat Plate Keel Angles DOUBLE .....	24 - B.S. 34		Spacing .....		
<b>Keelsons, No. each side</b> .....	One		<b>Fourth Deck, amidships, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....		
" thickness of Intercoastal Plate .....	5 3 40 - B.S. 50		Spacing .....		
" Angles .....	3 2½ 25 - 3x3x40 E.S.		<b>Poop Deck, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....		
<b>DOUBLE BOTTOM.</b>			Spacing .....		
<b>Solid Floors, thickness and spacing</b> .....			<b>Bridge Deck, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....		
" " Are Frame and Reversed Frame joggled? .....			Spacing .....		
<b>Bracket Floors, breadth and thickness at</b> <b>middle line</b> .....			<b>Forecastle Deck, Angle, <math>\frac{3}{4}</math> or <math>\frac{3}{8}</math></b> .....		
" " breadth and thickness at margin plate .....			Spacing .....		

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Foundation

00680-00605-0143 1/2



## PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows</b> .....	One			<b>TIE PLATES</b>			
Upper & Prom. decks				Stringer Plate, breadth and thickness in way of Bridge	24		
in 'tween Decks, Size and Spacing.....	2 1/4 To Suit Accomms.			<b>CURTAIN PLATE</b>			
" " " " " "	✓			Thickness of Plating abreast Deck openings in way of Wells	6 3 30		
in Holds " " " "	2 5/8 - 48			Thickness of Plating abreast Deck openings in way of Bridge	✓		
" " " " " "	✓			Thickness of Plating within line of openings...	✓		
<b>BUOYANCY SPACE</b>				If Sheathed, material and thickness <b>TEAK</b>	5 x 2 1/2		
<b>Centre-Line Bulkheads</b>				<b>Third Deck.</b>			
Stiffeners and Spacing.....	4x3x.30 - 24			Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	30/24			If Plated, state thickness.....	✓		
<b>STRINGERS AND DECKS.</b>				<b>Fourth Deck.</b>			
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	36 3/4 x .40			If Plated, state thickness .....	✓		
" " " " " in way of Bridge	✓			<b>Poop Deck.</b>			
" Angle in Wells	4 3/4 3 .35/40			Stringer Plate, breadth and thickness .....	✓		
Thickness of Plating abreast Deck openings in way of Wells	.25			Plating, Sheathing, material and thickness ...	✓		
Thickness of Plating abreast Deck openings in way of Bridge	✓			<b>Bridge Deck.</b>			
Thickness of Plating within line of openings...	✓			Stringer Plate, breadth and thickness.....	✓		
If Sheathed, material and thickness	5x3 TEAK FORE & AFT SHEATHED WITH 10x1 3/8 TEAK FOR A LENGTH OF 96' AMID			Plating, Sheathing, material and thickness ...	✓		
<b>Prom. Second Deck.</b>				<b>Forecastle Deck.</b>			
Stringer Plate, breadth and thickness in Wells	12 x .20			Stringer Plate, breadth and thickness.....	✓		
				Plating, Sheathing, material and thickness ...	✓		

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		Inches.
FLAT PLATE KEEL .....	37	.46	.44	.50		Double	3/4	3	3R-2R	3/4	2 5/8	Lapped.	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes ..... 3.....	A 63 B 57 3/4 C 57 3/4	.32	.30	.30		Single	3/4	3	2R.	3/4	2 5/8	Lapped.	
BILGE PLATING, No. of Strakes ..... 1.....	D 62 3/4	.32	.30	.30		Single	3/4	3	2R.	3/4	2 5/8	Lapped.	
SIDE PLATING, No. of Strakes ..... 2.....	E 41 F 41	.32	.30	.30		Single	3/4	3	2R.	3/4	2 5/8	Lapped.	
UPPER DECK, Sheer-strake in Wells.....	G 44 1/2	.45	.32	.34		Double	3/4	3	3R-2R.	3/4	2 5/8	Lapped.	
UPPER DECK, Sheer-strake in Bridge ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
STRAKE BELOW Sheer-strake in Wells.....	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
STRAKE BELOW Sheer-strake in Bridge ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
POOP SIDE PLATING .....	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BRIDGE SIDE PLATING ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
FOREC'TLE SIDE PLATING	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	Six
Extending to Upper Deck (Sec. 3 c)	Six
Deck next below	✓
As per Rule	as approved.

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> Slab	Roller Steel	10x1 1/4	Consell	
<b>STEM</b>	Do	6x1 1/4	Fordingham	
<b>STERN FRAME</b> (Propeller Post)	Cast Steel	as approved	English Steel Corp.	
(Rudder Post)	Forging	6x2 3/4	Cammell Laird & Co.	
<b>RUDDER—A x D</b> ..... 9.3				
Speed of Vessel... 12 knots				
<b>RUDDER</b> mainpiece at head ...	Forging	5 1/2 DIA.	Cammell Laird & Co.	
" " " heel ...	"	4 DIA.	Do	
" how constructed .....	Forged—Annealed & Keel			
" double or single plate	.86			
" coupling, vertical or horizontal .....	Horizontal			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHEAD, Upper 'tween decks</b> FR. 9	.34/30	5x3x.36 7x3x.34 B.A.	30"		
" " Second FR. 31	.36/30	5x3x.30 7x3x.34 B.A.	30"		
" " Third FR. 50	.34/28	5x3x.32 7x3x.30 B.A.	30"		
" " Holds FR. 61	.34/24	5x3x.34 3x3x.25	24/32		
<b>COLLISION</b> (in Hold) FR. 67	.34/24	5x3x.30 3x3x.25	24"		
<b>AFTER PEAK</b> " FR. 5	.34/30	5x3x.30 5x3x.36	24"		

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	S. M. Open Hearth.
	British (G. K. B.) Iron & Steel Co., Consell Steel Co., Lancashire Steel Co. Ltd. Skinningrove Iron Co. Ltd.	
	Has the Steel been tested as required by the Rules?	Yes



EQUIPMENT No											LETTER AS APPROVED.		ANCHORS. one		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY APPROVED PLAN	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
46868	1st Bower ...	8	0	18	2	0	20	10	5	0	0	10 INCL 2 STOCKS	Forged ingot steel anchor	Smt. Taylor & Sons (Brinsford Hill) Ltd.	P.H.C.H. 2/9/32. S.C. Paul.
✓	2nd " ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	3rd " ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Collective weight.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	Stream .....	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN CABLES.										HAWERS AND WARPS.											
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table.				
	Length.	Diam.	Stain- Break- ing.	Tons.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.	Length.	Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.			
47463	90	1 1/4	42 1/8	28 1/8	73-0-21			72	✓	90	1 1/4	Stud	✓	L.P.H.C.H. 28/7/32. S.C. Paul.	TOWLINE...	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		HAWERS & WARPS	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓			40	15	8"	MANILLA	4-15	8
Iron Steam Chain or Steel Wire	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓			40	12	6"		4-12	6

Steering Gear, Steam by John Hastie & Co. Ltd.

Steering Gear, Hand Liller & relieving Jackle ✓

Boats one

Steering Chains, Size and Test

1/16" short link chain - 7-18-0-0 ✓

Ceiling in Holds, thickness and material

Cargo Battens, thickness, material and spacing

Cargo Hatchways.—(Upper Deck)

Thickness of Hatches

Size of No. 1 Hatchway (Forward)

No. 2

No. 3

No. 4

No. 5

No. 6

Number of Shifting Beams and/or Fore and Afters

FOR AND ON BEHALF OF  
CAMMELL LAIRD & CO. LIMITED

Builder's Signature

SECRETARY.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel ✓ (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo ✓ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved plans, the Secretary's letter, and the Society's rules for the class contemplated.

The workmanship and materials are good.

A keelboard of 4'-11 1/4" has been assigned and verified and the markings cut in on the vessels sides.

All tanks, decks and bulkheads have been satisfactorily tested.

approved plans 13 in number details on page 4 are forwarded with this report

The amount of Entry Fee ..... £ 3 : 0 : 0  
Special Survey Fee .... £ 48 : 14 : 0  
Travelling Expenses, if any £ : :  
Fees applied for, 14 MAR 1933  
Received by me, 24-3-1933  
I am of opinion the Vessel should be Classed  $\nabla$  100 A.I. with keelboard "Ferry Purposes River Mersey."  
State whether the Vessel has been built under Special Survey yes.  
Signature E.H. Dean.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 14 MAR 1933

Character assigned + 100 A.I. 2.33. with fld.

Ferry Purposes - River Mersey.  
Lloyds A & C.P.

+ L.M.C. 2.33.

O.G. Elio Light



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GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The following approved plans are forwarded herewith:—

1. Midship Section
2. Equipment
3. Cast Steel Suttles.
4. Cast Steel Chain wheels
5. Longitudinal Section and deck plan
6. Alternative Arrangement to Stints in Buoyancy Spaces.
7. Revised W.T. Bulkhead and deep Tank Scantlings
8. Steering gear Arrangement.
9. Promenade deck beams.
10. Rudder frame, stem frame and shaft Brackets.
11. Pillars and girders.
12. Main Engine, Thrust and boiler Seats
13. Append framing.

This vessel is sister to T.S.S. "HINDERTON", Lin. report no. 89497- T.S.S. "THURSTASTON" Lin. report no. 97394 - T.S.S. "CLAUGHTON", Lin. report no. 97487.

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower  
2nd "  
3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

100 (pt. stl. & tank S.)

Official No. 162375

Signal Letters

Is bottom of Vessel coated with cement Yes. if not give

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	✓	✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	8'0"	54.5
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	12'0"	34.5
Double bottom, forward,	✓	✓	Other tanks, if fitted,	✓	✓
Total capacity of double bottom	✓	✓	(If necessary, furnish further information by sketch.)	✓	✓

\* The wells are not to be included in the lengths of the tanks.

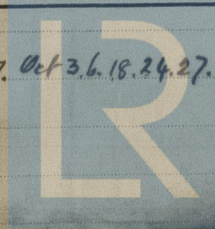
Order for Special Survey No. 1266

Date

23/9/32.

Dates of Surveys held while building

July 20. Aug 3, 10, 12, 25, 30, 31. Sept 6, 9, 15, 21, 22, 27. Oct 3, 6, 18, 24, 27. Nov 1, 4, 8, 9, 23, 28, 30. Dec 7, 13, 15, 16, 19.  
20, 29. Jan 3, 4, 5, 10, 12, 17, 31. Feb 6, 10, 13, 15, 17, 23.



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Total No. of Vessels 45.