

With or Without
Disconnected Erections.

STEEL STEAMER.

DISCLOSED
BOX NO. 46

Received at London Office

10E.22.APR.1917

Date of completion of report

Survey held at *Ellersmere Port*

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

Port of

LIVERPOOL

No.

78939.

Date, First Survey

July 11th 1917

Last Survey

April 10th 1917

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

Non-propelled Boom Bepara Tug "B.D.38" Rig

TONNAGE under

200.46

Tonnage Deck

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

Total under Upper Dk.

200.46

Do. of Poop

Do. of R.Q. Dk.

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

5.23

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

205.69

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

205.69

as out on Beam

CLASS *F100A* For Special Service

Breadth (greatest moulded)

25

Depth, at middle of length from top of keel to top of upper deck beams at side

13.5

Transverse Number

38.5

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

94.25

Longitudinal Number

3628

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

12

Proportions—Depths to Length—Upper Deck Beam at side to top of keel

6.98

" " Long Bridge Deck, Beam at side to top of keel

Master

Year of appointment

(1) As Master in service of owner of present vessel—191
(2) As Master of this vessel—191

Built at *Ellersmere Port, Chester*

When built *1919* Launched *23rd Sept. 1918*

By whom built *The Manchester, Wm. Booth & Co. Ltd*

Owners *The Admiralty*

Managers

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

Residence

Port belonging to

If Surveyed while Building, Afloat, or in Dry Dock *Both*

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	No. of Tiers of Beams
<i>94</i>	<i>3</i>		<i>25</i>	<i>0</i>		<i>12</i>	<i>6</i>		<i>One</i>	<i>One</i>

Dimensions of Ship per Register, Length *95.7* breadth *25.1* depth *12.5* Moulded depth, ft. *13* ins. *6* To Bridge Dk. Round of Upper Dk. Beam, Actual *6* ins.

FRAMING.						PILLARS.					
FRAME, Angles, on <i>Corb</i> Bars amidships						PILLARS In 'tween Deck, size and spacing					
Do. in peaks	<i>4 1/2</i>	<i>3</i>	<i>36</i>	<i>4 1/2</i>	<i>3</i>	" " <i>Hold Machinery, Space</i>	<i>3</i>		<i>3</i>		
Do. in way of Double Bottoms at Solid Floors	<i>4 1/2</i>	<i>3</i>	<i>36</i>	<i>4 1/2</i>	<i>3</i>	" " <i>Quarter 'tween Dks.,</i>	<i>5</i>		<i>5</i>		
" " at intermdt. Bkts.						" " in Hold					
acing of Frames from centre to centre amidships			<i>21</i>		<i>21</i>	KEELSONS & STRINGERS.					
" " from $\frac{1}{2}$ length to Collision bulkhead			<i>21</i>		<i>21</i>	CENTRE LINE KEELSON, Vertical Plates above floors, Through Plates, or Intercoastal Plate					
" " in peaks			<i>21</i>		<i>21</i>	" Rider Plate	<i>3</i>	<i>4</i>	<i>26</i>	<i>3</i>	<i>6</i>
VERSED FRAME, Angles	<i>3</i>	<i>2 1/2</i>	<i>28</i>	<i>3</i>	<i>2 1/2</i>	" Flat Plate Keel Angles					
Do. in way of Double Bottoms at Solid Floors	<i>2 1/2</i>	<i>2 1/2</i>	<i>28</i>	<i>2 1/2</i>	<i>2 1/2</i>	" Horizontal Plates on Floors					
" " at intermdt. Bkts.						" Angles or Bulb Angles	<i>4 1/2</i>	<i>3</i>	<i>36</i>	<i>4 1/2</i>	<i>3</i>
AMING, depth of girder						SIDE KEELSONS, Number <i>One</i>					
DOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	<i>18</i>		<i>3</i>	<i>18</i>	<i>3</i>	" Angles or Bulb Angles	<i>3</i>	<i>3</i>	<i>28</i>	<i>3</i>	<i>3</i>
" in way of Engine and Boiler Spaces			<i>34</i>		<i>34</i>	" Plate above floors, for length					
thickness at the ends of vessel			<i>26</i>		<i>26</i>	" Intercoastal Plate, for <i>whole</i> length	<i>3</i>	<i>3</i>	<i>26</i>	<i>3</i>	<i>26</i>
depth at $\frac{1}{2}$ the half breadth, as per Rule						" Attached to outside Plating with Angle			<i>28</i>	<i>3</i>	<i>28</i>
height extended at the Bilges	<i>Straight across</i>					BILGE KEELSON, Angles					
DOORS in Cell. Double Bottoms						" Intercoastal Plate for length					
state if flanged (top & bottom)						" Attached to outside Plating with Angle					
Spacing of Solid floors						SIDE STRINGERS, Number <i>One</i>					
CENTRE GIRDER, in Dbl. bottom, dpth. & thcknss.						" " <i>10</i> Angles	<i>3</i>	<i>3</i>	<i>28</i>	<i>3</i>	<i>28</i>
" Angles, Top						" Intercoastal Plate, for <i>whole</i> length			<i>26</i>		<i>26</i>
" Bottom						" Attached to outside plating with Angle	<i>3</i>	<i>3</i>	<i>28</i>	<i>3</i>	<i>28</i>
" to Floors						Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	<i>36 x 36</i>	<i>28</i>	<i>36 x 36</i>	<i>28</i>	
Brackets at intermdt. frmg., width & thcknss						" " " " (br'dth & thickness (in way of Bridge)					
DECK GIRDERS, number on each side & thickness						" " " " Angle (clear of Bridge)	<i>3 x 3 x</i>	<i>32</i>	<i>3 x 3 x</i>	<i>32</i>	
" state if flanged (top and bottom)						" " Tie Plate at sides of Hatchways					
" Angles (top and bottom)						" Deck * Iron or Steel, for <i>whole</i> lng.	<i>3 1/2</i>	<i>28</i>	<i>3 1/2</i>	<i>28</i>	
" to Floors						" Thickness (clear of Bridge)					
GIN PLATE, depth (exclusive of flange) and thickness						" (in way of Bridge)					
" Angle to Outside Plating						" Wood Deck, Material & thickness					
" Floors						Second Deck Stringer Plate, br'dth & thickness					
Brackets at intermdt. frmg., width & thcknss						" Angles on ditto, No.					
Height of Outside Brackets above at bilge						" Tie Plates outside Hatchways					
DECK BOTTOM PLATING, breadth and thickness of Middle Line Strake						" Deck * Iron or Steel, for lng.					
" in Engine and Boiler space						" Wood Deck, Material & thickness	<i>Red Pine</i>	<i>2 1/2</i>	<i>Red Pine</i>	<i>2 1/2</i>	
" Remainder in Holds						Third Deck Stringer Plate, br'dth & thickness					
IS, Upper Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	<i>4 1/2</i>	<i>3</i>	<i>3</i>	<i>4 1/2</i>	<i>3</i>	" Angles on ditto, No.					
In way of Long Bridge						" Tie Plates, outside Hatchways					
Spacing			<i>21</i>		<i>21</i>	" Deck * Material and thickness					
IS, Second Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	Fourth and Fifth Deck Stringer Plate, breadth & thickness					
Spacing			<i>21</i>		<i>21</i>	" " Angles on ditto, No.					
IS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel						" " Tie Plates outside Hatchways					
Angles on upper edge						" " Deck, Material & thickness					
Spacing						Poop Deck Stringer Plate, breadth & thickness					
S, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel						" Angle on ditto					
Angles on upper edge						" Tie Plates					
Spacing						" Deck, Material and thickness					
S, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel						Bridge Deck Stringer Plate, br'dth & thickness					
Angles on upper edge						" Angle on ditto					
Spacing						" Tie Plates					
S, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel						" Deck, Material and thickness					
Angles on upper edge						Forecastle Deck Stringer Plate, br'dth & th'kns					
Spacing						" 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.

WEB FRAMES.				Inches in Ship.	Inches in Ship.	Inches per Rule, Or as App.	Inches per Rule, Or as Approved.	FORGINGS or CASTINGS.		Inches in Ship.	Inches per Rule, Or as Approved.	
WEB-FRAMES, In Fore Body, No. and spacing								KEEL, Bar, depth and thickness	6 x 1 1/4	6 x 1 1/4		
" " " brdth. & thickness								STEM, moulding and thickness	6 x 1 1/4	6 x 1 1/4		
" No. of Side Stringers " "								STERN-POST for Rudder do. do.	6 x 1 1/4	6 x 1 1/4		
WEB-FRAMES, In E. & B. Space, No. & spacing								" for Propeller				
" " " brdth. & thickness								RUDDER-A x D* Table 22. Speed	4	4		
" " " brdth. & thickness								" Main-Piece, diameter at head	4	4		
" No. of Side Stringers " "								" " " at heel	4	4		
" Size of Face Angles to Web-Frames.....								RUDDER, how constructed Forged frame. Single plate				
BRACKET PLATES to Stringers between Web Frames, depth and thickness.....								" Thickness of Plates or Single Plate	1 1/2 x 2			
								Can the Rudder be unshipped afloat? 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.? Connell Iron Co, Parkgate Steel & Iron Co, Dorman, Long & Co.				
								Has the Steel been tested as required by the Rules? yes				

PLATING.								RIVETING.											
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES, Ordinary or joggled?				BUTTS.								
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.			
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.		
Flat Plate Keel (If Bar Keel, state Riveting.)							Reel		1	5									
GARBOARD OR A Strake	40 1/2	36	32	32	40 1/2	36	Single	2 1/2	3/4	3	Double	3/4	2 5/8	9 3/4	4		whole length		
State actual thickness in ins. of Double Bottom.	B	54	30	28	28	54	"	2 1/4	5/8	2 1/2	"	5/8	2 1/4			4 1/4			
	C	53	28	28	28	53	"	2 1/4	"	"	"	"	"			"	"		
	D	44	28	28	28	44	"	2 1/4	"	"	"	"	"			"	"		
	E	47 1/4	30	28	28	47 1/4	"	2 1/4	"	"	"	"	"			"	"		
Upper Deck Sheer	F	47	32	30	30	47	"	2 1/4	"	"	"	"	"			"	"		
	G																		
	H																		
	J																		
	K																		
	L																		
	M																		
	N																		
	O																		
	P																		
	Q																		
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	V																		
	W																		
THICKNESS OF SHEERSTRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DBLG. of Flat Plate Keel " Sheerstrakes Length and thickness.																			
POOP SIDES																			
SHORT BRIDGE SIDES																			
FORECASTLE SIDES																			

* Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.

Upper Deck	Butts, double riveted for whole length amidship.	Butts of Side Stringers Bracketed to bulkheads riveted.
Stringer Plate	Straps, single, double or overlapped for — length amidship.	" Tie Plates — riveted.
Second Deck	Butts, — riveted for — length amidship.	Inner Bottom Plating, riveting of Edges — Butts —
Stringer Plate	Straps, single or overlapped for — length amidship.	Centre Girder Butts, Interstitial riveted. Keelson Butts, Interstitial riveted.
		Frames, riveted through Plates with 3/4 x 5/8 in. Rivets, about 5 1/2 to 4 1/2 apart.
		Rivets, state whether Iron or Steel. Steel

FRAMES extend in one length from Keel to upper deck	State if ordinary or joggled ordinary
REVERSED FRAMES on floors and frames extend from to upper turn of bilge	State if ordinary or joggled ordinary

MASTS, SPARS, &c.

	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS.....	Fore Main Mizzen	Pitch Pine 34'-4"	12"	12"	10"	3 1/2"	—	—	—	—	—
Boysprit	Signal										
Topmasts, Yard and Remainder of Spars		One signal yard 18'-0". Pitch Pine. One Pitch Pine derrick 14'-0" long x 8" dia.									
Rigging, Material and Size, Shrouds		Galv. Hexilla S.W. 2"									
Sails.		Suit of —									
		Sails, and the following spare sails.									

EQUIPMENT No.			LETTER			ANCHORS.			TONNAGE U. DK. OR PLATING No. FOR TRAWLERS		
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 31.		
		Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Tons. cwt. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.
22306	1st Bower ...	7 0 7	-	-	-	9 7 0	21	-	-	-	-
	2nd " ...										
	3rd " ...										
	4th " ...										
	Collective weight.										
	Stream										
	Kedge										

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

1st Bower 4-1-22. A. Barn. 7385. 1st October 1914.
 2nd "
 3rd "
 4th "

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.	Break- ing.	WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.	Descrip- tion.	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.	Cir.	Fathoms.	Ins.
	Length.	Diam.			Supplied.	Per Rule.						Length.	Cir.						
12859	60	3/4	10-12	15-12	18-3-24			Stud link	Bloomer & Sons	Low Walker 6 th July 1918. A. Gnan.	TO WINE	90	4"	main					
												24	2 1/2	"					

Boats Two 15 feet & 12 feet. **Steering Gear, Steam** — **Steering Gear, Hand Tiller, & Tackle** —
Pumps, Number Two Downston **Diameter of Barrel** 5" **State whether they are in efficient working order** Yes
Windlass is Stand (Emerson Walker) **Capstan** —
Engine Room Skylights.—How constructed? Steel **What arrangements for deadlights in bad weather?** Canvas covers.
Coal Bunker Openings.—How constructed? Cast Iron Scallops **How are lids secured?** Locking wedge **Height above deck?** Flush
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Two pipe scuppers each side 3" dia.
Ceiling in Holds, thickness and material — **Cargo Battens, 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 Two each end **No. of Crutches** —
Bulwarks, height above deck and description At ends only 36" high. **Main Rail, material and size** B.A. 6"x3"x3/8"
 The foregoing is a correct description. **FOR THE MANCHESTER DRY DOCKS CO., LTD.** **Surveyor's Signature** W.W. Cole, A. J. Barnett
 Builder's Signature (here only) **MANAGER** **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)
 Admiralty Letters 7/3/14, 13/6/17, London 12/3/14, 26/3/14, 16/6/14.
Workmanship. Are the butts of plating planed or otherwise fitted? *clipped*
 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? *none*
 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 *satisfactory*
 Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *none* State results of tests —
General Remarks (State quality of workmanship, &c.)

This vessel has been constructed in accordance with the approved Plans, Admiralty Specification and amendments, and otherwise in conformity with the Rules. The materials and workmanship are good.

This vessel is a sister vessel of "B.D. 19", "B.D. 20" and "B.D. 34" Liverpool Reports Nos 78269, 48433 and 78764

While fitting out vessel was damaged by collision and damage satisfactorily repaired, as per copy of damage report attached.

The Surveyor should state the Number of Report and Name of any Sister Vessel.
 Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee £ 4 : 0 : 0 Fees applied for, 14/5/1919
 Special Survey Fee.... £ 20 : 12 : 0 Received by me, 24/5/1919
 Travelling Expenses, if any £ 3 : 3 : 0
 State whether the Vessel has been built under Special Survey *yes*
 I am of opinion this Vessel should be Classed *100 A for special service*
 With, or without Freeboard, as condition of Class *without freeboard*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL
Character assigned 100 A for Special Service

GENERAL REMARKS—(continued).

WEB-FRAM
" " No.
WEB-FRAM
" " No.
" " Size of
BRACKET 1
Web Fram

BULKHEAD
W.T.BULKHEAD

COLLISION
PARTITION
LONGITUDINAL

Are the out
Are the Slu

ST

Flat Pl
(If Bar Ke
GARBOARD

State act
thickness
wa. of De
Bottom

Upper
Steel

THICK
CLEAR
DO.
DBLG.

"
Length

POOP
SHORE

FORE

Upper
Str

Seco
Str

FR

RE

Lo

Boy

Top

Rigging,

Sails.

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 (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) *The deck, steel, one tier of beams.*
Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Red lead paint. Cement in machinery spaces on bottom.* State if Machinery is fitted aft *Yes* Outside *On bottom, & Red lead 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,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
			(If necessary, furnish further information by sketch.)		
Total capacity of double bottom					

* 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.

Order for Special Survey No.

Date

No. 70 in builder's yard.

DATES OF SURVEYS
held while building

1912
July 11, 26. Aug 3, 14, 23, 29. Sept 2. Oct 10, 12, 25, 30. Nov 7, 9, 13, 23, 29. Dec 7, 13, 15, 26. Mar 7, 20, 26.
Apr 5, 12, 19, 26. May 10, 17, 23, 30. June 10, 13, 17, 26, 28. July 5, 10, 16, 22. Aug 2, 12, 16, 23. Sept 11, 25.
Oct 4, 11, 17, 18, 22, 29. Nov 5, 22, 29. Dec 2, 6, 11, 19. 1913
Jan 7, 19, 22, 23. Feb 19. Mar 3, 13, 19, 23, 31.

Total No. of Visits 69.

Surveyor's Signature W.W. Cole A.J. Barnett