

With or Without Disconnected Erections.

STEEL STEAMER.

Empire Seal
Received at London Office

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

Date of completion of report *18 October, 1924.*
Survey held at *Blyth 23 OCT 1924*

Port of *NEWCASTLE-ON-TYNE*
Date, First Survey *24 January/24* Last Survey *17 October 1924*

No. *78443*

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

Steamer "TULLOCHMOOR"

Rig *Schooner*

TONNAGE under Tonnage Deck	2432.63
Do. between Tonnage Dk. and 3rd and 4th Dk.	-
Total under Upper Dk.	2432.63
Do. of Poop	49.90
Do. of R.Q.Dk.	-
Do. of Bridge House	-
Do. of Forecastle (House in.)	4.14
Do. of Houses on Dk.	91.49
Do. of excess of Hatchways	149.95
Do. above Crown of Engine Room	-
Gross Tonnage	2728.11
Less Crew Space	109.63
Less above Crown of Engine Room	-
TONNAGE FOR FEES	2728.11
Less Engine Room	873.00
Less Navigation Spaces	59.45
Register Tonnage as cut on Beam	1686.03

CLASS	100 A.1.
Breadth (greatest moulded)	42.75
Depth, at middle of length from top of keel to top of upper deck beams at side	26.81
Transverse Number	-
Length on deck from fore part of stem to after part of stern post	320.0
Longitudinal Number	-
Depth "d," at middle of length (See Secs. 2 & 13)	-
Proportions—Depths to Length—Upper Deck Beam at side to top of keel	-
Long Bridge Deck Beam at side to top of keel	-

Master	-
Year of appointment	(1) As Master in service of owner of present vessel—19 (2) As Master of this vessel—10
Built at	<i>Blyth</i>
When built	<i>1924</i>
Launched	<i>3rd July 1924.</i>
By whom built	<i>Blyth S.B. & D.D. Co. Lt^d</i>
Owners	<i>Walter Runciman & Co. Lt^d</i>
Managers	-
Residence	-
Port belonging to	<i>Newcastle.</i>

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

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
	320	0		42	9		24	4	ONE	ONE

FRAMING.							PILLARS.							KEELSONS & STRINGERS.					
	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.		Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.				
FRAME, Angles, or Bars amidships	9 1/2	3 1/2	5 1/2	9 1/2	3 1/2	5 1/2	PILLARS In ^{Plate 9 ft. 0 in.} between Deck, size and spacing	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames	2 1/2 dia. frames				
Do. in peaks	9 1/2	3 1/2	5 1/2	9 1/2	3 1/2	5 1/2	" Holds	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in	Flanged brackets .38 in				
Do. in way of Double Bottoms at Solid Floors...	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	" Quarter between Dks.,	way of web platforms	way of web platforms	way of web platforms	way of web platforms	way of web platforms	way of web platforms	way of web platforms	way of web platforms				
" " at intermdt. Bkts.							" in Hold	arch webs as per	arch webs as per	arch webs as per	arch webs as per	arch webs as per	arch webs as per	arch webs as per	arch webs as per				
Spacing of Frames from centre to centre amidships	30"			30"															
" " " from 1/2 length to Collision bulkhead	27"			27"															
" " " in peaks..	24"			24"															
REVERSED FRAME, Angles.....	none			none															
Do. in way of Double Bottoms at Solid Floors...	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2													
" " at intermdt. Bkts.																			
FRAMING, depth of girder	9 1/2			9 1/2															
FLOORS, depth and thickness of Floor Plate } at mid-line for 1/2 length amidships... }																			
" in way of Engine and Boiler Spaces																			
" thickness at the ends of vessel																			
" depth at 1/2 the half breadth, as per Rule ...																			
" height extended at the Bilges																			
FLOORS in Cell. Double Bottoms.....	.36			.36															
" state if flanged (top & bottom).....	no.			no.															
" Spacing of Solid floors	Every frame			Every frame															
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	40 x .46			40 x .46															
" " Angles, Top	6	6	.44	6	6	.44													
" " Bottom	6	6	.58	6	6	.58													
" " to Floors	3 1/2	3 1/2	.36	3 1/2	3 1/2	.36													
" Brackets at intermdt. frmg., wdth & thknss																			
SIDE GIRDERS, number on each side & thickness	12 .36			12 .36															
" state if flanged (top and bottom)	no.			no.															
" Angles (top and bottom)	3 1/2	3 1/2	.36	3 1/2	3 1/2	.36													
" to Floors.....	3	3	.34	3	3	.34													
MARGIN PLATE, depth (exclusive of flange) } and thickness..... }	35 x .42			32 x .42															
" Angle to Outside Plating.....	3 1/2	3 1/2	.44	3 1/2	3 1/2	.44													
" Floors	3 1/2	3 1/2	.36	3 1/2	3 1/2	.36													
" Brackets at intermdt. frmg., wdth & thknss																			
" Height of Outside Brackets above at bilge	26"			26"															
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake } (In Holds) }	64 x .48			47 x .48															
" in Engine and Boiler space	E.3.44; B.3.52			E.3.44; B.3.52															
" Remainder in Holds.....	.50			.48															
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel } In way of Long Bridge	8 1/2	3	.44	8 1/2	3	.44													
" Spacing	Every frame			Every frame															
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel } Spacing																			
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel } Angles on upper edge																			
" Spacing																			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel } Angles on upper edge	6 1/2	3	.34	6 1/2	3	.34													
" Spacing	alt ^d frames			alt ^d frames															
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 } Angles on upper edge	5 1/2 x 3 x .36 (b)			5 1/2 x 3 x .36 (b)															
" Spacing	Every frame			Every frame															

Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge) }	70	.84	70	.84
" amidships br'dth & thickness (in way of Bridge) }	54 1/2	.50	54	.50
" Angle (clear of Bridge)	6 x 6 x .70	6 x 6 x .70		
" Tie Plate at sides of Hatchways.....				
" Deck. * Iron or Steel, for full lng.				
" Thickness (clear of Bridge) round dk.	.40	.40		
" (in way of Bridge amidships)	.40/.30	.40/.30		
" Wood Deck. Material & thickness	none	none		
Second Deck Stringer Plate, br'dth & thickness				
" Angles on ditto, No.				
" Tie Plates outside Hatchways				
" Deck. * Iron or Steel, for lng.				
" Wood Deck. Material & thickness				
Third Deck Stringer Plate, br'dth & thickness				
" Angles on ditto, No.				
" Tie Plates, outside Hatchways.....				
" Deck. * Material and thickness				
Fourth and Fifth Deck Stringer Plate, } breadth & thickness }				
" Angles on ditto, No.				
" Tie Plates outside Hatchways				
" Deck. Material & thickness				
Poop Deck Stringer Plate, breadth & thickness	33 x .30	.30		
" Angle on ditto	3 1/2 x 3 1/2 x .34	3 1/2 x 3 1/2 x .34		
" Tie Plates	5 x 2 1/2 P.P.	5 x 2 1/2 P.P.		
" Deck. Material and thickness	Steel	.30	.30	
Bridge Deck Stringer Plate, br'dth & thickness				
" Angle on ditto				
" Tie Plates.....				
" Deck. Material and thickness				
Forecastle Deck Stringer Plate, br'dth & th'kns	36 x .32	.32		
" Angle on ditto	3 1/2 x 3 1/2 x .34	3 1/2 x 3 1/2 x .34		
" Tie Plates	sheathing underwales	4" P.P.		
" Deck. Material and thickness	Steel	.32	.32	

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

Lloyd's R

WEB FRAMES.		Inches in Ship.	Inches in Ship.	Inches per Rule.	Inches per Rule.	FORGINGS or CASTINGS.		Inches in Ship.	Inches per Rule, Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing		at fore end of hold, in lieu of web frames, reverse angles fitted to frames 116-125 (inches)				KEEL, Bar, depth and thickness		Flat plate	
" " " brdth. & thickness						STEM, moulding and thickness		8 x 2 1/4	8 x 2 1/4
" " " No. of Side Stringers		Fore hold 2-parting stringers fitted one				STERN-POST for Rudder do. do.		8 x 5 3/4	8 x 5 3/4
WEB-FRAMES, In E. & B. Space, No. & spacing		16" x 44 / 15" x 38.				" for Propeller		9 x 5 3/4	9 x 5 3/4
" " " brdth. & thickness						RUDDER—A x D* Table 22. Speed 11 knots		240	
WEB-FRAMES, In After Body, No. and spacing		arched webs all fore				" Main-Piece, diameter at head		7 1/2	7 1/2
" " " brdth. & thickness		1 aft .38, as per approved plans.				" " " at heel		5 1/2	5 1/2
" " " No. of Side Stringers									
" " " Size of Face Angles to Web-Frames									
BRACKET PLATES to Stringers between Web Frames, depth and thickness									

BULKHEADS.	Number.	Thickness.	STIFFENERS.		Single or Double Frames.	Height up, state deck.
			Horizontal.	Vertical.		
			Size.	Spacing.	Size.	Spacing.
			Inches.	Inches.	Inches.	Inches.
W.T. BULKHEADS	11	.34/26	Tunnel recess 7 x 3 x 42, 24" Single U. Dk.			
	55	.38/30	11 x 3 1/2 x 48. 30			
	79	.44/34	11 x 3 1/2 x 48. 30			
	101	.38/30	11 x 3 1/2 x 48. 30			
" COLLISION "	126	.34/26	W.T. flat 7 1/2 x 3 x 42, 24"			
PARTITION NON-W.T.	73	.34/30	8 x 3 x 38. 36"			
LONGITUDINAL.						

RUDDER, how constructed	Steel plate built on forged arms
Thickness of Plates or Single Plate	.96
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. ? *Open Hearth Basic Process.*

South Durham S. & S. Co. Ltd.; Baldkrow. Vaughan & Co. Ltd.; Dorman Long & Co.; Cargo Fleet Iron Co.; D. Bolville & Sons Ltd.

Are the outside Plates doubled two spaces of Frames in length? *No.*

Are the ~~Staircase~~ Valves and Watertight Doors in efficient working order? *yes.*

PLATING.							RIVETING.										
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.						
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Ordinary or joggled?		RIVETS.		RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
FLAT PLATE KEEL.....	47	.58	.54	.54	47	.58	Double	5 1/4	7/8	3 1/2	Double	7/8	3 1/8			9	Full
(If Bar Keel, state Riveting.)	68	.54	.42	.42	68	.54	"	4 1/2	3/4	3	"	3/4	2 5/8			7 1/2	"
GARBOARD OR A Strake	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
State actual thickness in way of Double Bottom.	66	.54	.42	.42	66	.54	"	"	"	"	"	"	"			"	"
B "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
C "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
D "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
E "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
F "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
G "	68	.54	.42	.42	68	.54	"	"	"	"	"	"	"			"	"
H "	68	.54	.42	.42	68 1/2	.54	"	5 1/4	7/8	3 1/2	"	7/2	"			7 1/2	"
Sheer. J "	52	.70	.42	.42	49 1/2	.70	"	"	"	"	Double 1/2	7/8	3 1/2			12	"
K "																	
L "																	
M "																	
N "																	
O "																	
P "																	
Q "																	
R "																	
S "																	
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V "																	
W "																	
THICKNESS OF STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DBLG. OF Flat Plate Keel																	
" Sheerstrakes Length and thickness.																	
POOP SIDES					.34	.34	Single	2 1/2	3/4	3	Single	5/8	2 1/4			2 1/2	Full
SHORT BRIDGE SIDES					.36	.36	"	2 1/2	3/4	3	"	3/4	2 5/8			3	Full
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 Stringer Plate	Butts, Quad. riveted for 1/2 length amidship.	Butts of Side Stringers Double riveted.
	Straps, single, double or overlapped for full length amidship.	" Tie Plates riveted.
Second Deck Stringer Plate	Butts, riveted for length amidship.	Inner Bottom Plating, riveting of Edges Single Butts D. & S.
	Straps, single or overlapped for length amidship.	Centre Girder Butts, Treble riveted. Keelson Butts, riveted.
		Frames, riveted through Plates with 3/4" in. Rivets, about 4 1/2" apart.
		Rivets, state whether Iron or Steel. Iron.

FRAMES extend in one length from Centre line to margin plate & thence to gunwale. State if ordinary or joggled *Joggled.*

REVERSED FRAMES on floors and frames extend from Centre girder to tank side.

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 Steel	50'-2"	22" x .34	21" x .34	✓	16" x .30	2	None	Single	T. & D.	
	Main "	60'-11"	22" x .34	19" x .30		16" x .30	2	None	"	T. & D.	
	Mizen										
Bowsprit	None.										

Topmasts, Yards and Remainder of Spars *Pitch pine.*

Rigging, Material and Size, Shrouds *Galvanised steel wire 3 1/2"* Stays *Gal. st. wire 3 1/2". Topmast stay 2".*

Sails. *None* Suit of *✓* Sails, and the following spare sails *✓*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21.0 ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 26.0 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 a should appear in the Register Book) 1. Dk. (stl.) and Dk. Cruiser Stern.

Official No. 148091; Signal Letters K. R. J. S. State if Machinery is fitted aft No.

How are the surfaces preserved from oxidation? Inside Paint; Cement in B.R. tank only. 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.		Water Capacity.	Where Fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	<u>110.0</u>	<u>254</u>		Fore peak tank,		<u>48</u>	
Double bottom, under Engines and Boilers,	<u>35.0</u>	<u>127</u>		After peak tank,		<u>99</u>	
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Deep tank, aft,			
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Deep tank, forward,			
Double bottom, forward,	<u>132.25</u>	<u>362</u>		Other tanks, if fitted,			
Total capacity of double bottom			<u>743</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.

Order for Special Survey No. 5063

Date 10/1/24

No. 229 in builder's yard.

Dates of Surveys held while building

1924
Jan 24 Feb 5. 6. 7. 8. 12. 13. 15. 18. 22. 25. 28. Mar. 4. 10. 11. 19. 21. 24. 26. 27. Apr 1. 4. 8. 10. 14. 15. 24. May 1. 2. 14. 16. 21. 22. 27. 28. 29. 30. June 2. 5. 11. 12. 17. 19. 23. 24. 25. 27. 30. July 1. 2. 3. 4. 7. 9. 10. 11. 14. 15. 16. 17. 22. 23. 24. 25. Aug 18. 24. Sep. 1. 2. 3. 10. 12. 15. 16. 17. Oct. 17.

Total No. of Visits 77

Surveyor's Signature J. R. Beveridge.