

STEEL STEAMER or MOTORSHIP.

Received at London Office

20 OCT 1924

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

8/10/24

Port of

NEWCASTLE-ON-TYNE

No.

78421.

Survey held at

HEBBURN-ON-TYNE

Date First Survey

16th May

Last Survey

3rd October

1924

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

single sc. steamer

"MIDDLESBRO"

Machinery not fitted aft

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling

State Type of Erections

R & Q DECK
BRIDGE
FORECASTLE
WELL DECK

TONNAGE under Tonnage Deck

725.27

CLASS \dagger 100 A1

State if with freeboard as condition of Class

without

Built at

Hebburn-on-Tyne

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 225.0

Launched 28th Aug 1924

Yard No. 535

Total

Breadth (greatest moulded)

B 32.0

Builders R.W. Hawthorn Leslie & Co. Ltd

Gross Tonnage

985.96

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

D 16.6

Owners Tyne-Tees S.S. Co. Ltd

Register Tonnage

403.09

1st Longitudinal Number (L x D)

= 3712

Managers

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

2nd Numeral L x (B + D)

= 10912

Residence Newcastle

REGISTERED DIMENSIONS.

FEET.

Length

225.2

Breadth

32.2

14.3

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

UOK 13.85
R&Q 17.66

Proportions—Depth to Length—Uppermost continuous deck to top of keel

13.6

Do. Long Bridge to top of keel

11.07

Draught Moulded

14'-11 1/4"

Port of Registry

Newcastle

If surveyed while building, afloat, or in dry dock

Building and afloat

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.
Spacing amidships	23		Bracket Floors, Frame		
from 1/2 length to Collision bulkhead	23		Reversed Frame		
in peaks	23		Vertical Struts		
FRAMING.			Centre Girder, depth and thickness amidships	32 40	
Amidships, Angle, E or F	UOK 6 3 41 R&Q 7 3 43		top Angle	3 3 38	
Extends up to	deck		bottom Angle	3 1/2 3 1/2 40	
Side Frame Amidships, Angle on floor	3 3 44		Side Girders, No. each side and thickness	one 30	
Extends up to	across floor		Margin Plate depth (excl. of flange) and thickness	22 36	
of Framing Girder	6 1/2 x 7 1/2		Vertical Angle to Tank side	3 3 30	
in Uppermost Continuous 'tween Decks, Angle, E or F			Bracket abaft 1/2 len. from stem		
Second 'tween Decks, Angle, E or F			Vertical Angle to Tank side		
Third			Bracket forward 1/2 len. from stem		
in Peaks, Angle	6 3 40	44 1/2 x 3 x 40	Gussets, spacing and scantling abaft 1/2 len. from stem		
ter and Spacing of Rivets through Shell Plating	3/4" 7' clear x 5 1/2' clear		Gussets, spacing and scantling forward 1/2 len. from stem		
Frame Joggled	yes		Tank Side Brackets, height above base line at toe of Frame and thickness	44" 30	
ARRANGEMENTS (Sec. 7). state system and particulars	deep BA frames 7 1/2 x 3 x 46	side struts	INNER BOTTOM PLATING.		
THENING OF BOTTOM FOR RED. State Particulars	double riveted frame bottom	thickness of bottom shell	Breadth and thickness of Middle Line Strake	42 36	
BOTTOM. Boiler room only			Thickness of remainder in Holds	32	
Depth and thickness at mid-line	19 44		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?	yes	
Height of Brackets at side above base line at toe of frame	44"		BEAMS.		
Line Keelson, on Floors, Angles, E or F	3 3 48		Uppermost Continuous Deck, amidships in Wells, Angle, E or F	5 1/2 3 30	
Through Plate or Intercoastal Plate	32 30		in way of Bridge, Angle, E or F	5 1/2 3 30	
Foundation Plate on Floors	12 x 50		Spacing	23	
Flat Plate Keel Angle	3 1/2 3 1/2 40		Second Deck, amidships, Angle, E or F		
Keelsons, No. each side	one		Spacing		
thickness of Intercoastal Plate	44		Third Deck, amidships, Angle, E or F		
Angles	5 1/2 3 42		Spacing		
margin plate also carried thru BR			Fourth Deck, amidships, Angle, E or F		
E BOTTOM.			Spacing		
Floors, thickness and spacing	30-23		ROCK		
Are Frame and Reversed Frame joggled?	yes		ROCK Deck, Angle, E or F	5 1/2 3 30	
et Floors, breadth and thickness at middle line			Spacing	23	
breadth and thickness at margin plate			Bridge Deck, Angle, E or F	6 3 40	
			Spacing	46	
			Forecastle Deck, Angle, E or F	6 3 30	
			Spacing	46	

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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.
PILLARS, No. of Rows.....	<i>one</i>		3" ✓	Stringer Plate, breadth and thickness in way of Bridge		✓	
„ in 'tween Decks, Size and Spacing.....	<i>2ft one</i>		2 3/4" ✓	Thickness of Plating abreast Deck openings) in way of Wells		✓	
„ „ „ „ „				Thickness of Plating abreast Deck openings) in way of Bridge		✓	
„ in Holds <i>for angle pillars as plan</i>				If Sheathed, material and thickness		✓	
„ <i>also deep knees to beams and frames as plan</i>				Third Deck.			
Centre Line Bulkhead.				Stringer Plate, breadth and thickness.....		✓	
Stiffeners and Spacing.....			✓	If Plated, state thickness.....			
Plating, thickness of			✓	Fourth Deck.			
STRINGERS AND DECKS.				Stringer Plate, breadth and thickness.....		✓	
Uppermost Continuous Deck.				If Plated, state thickness			
Stringer Plate, breadth and thickness in Wells		76	.52 ✓	Poop Deck. <i>P. Q. R. A</i>			
„ „ „ „ in way of Bridge		78	.38 ✓	Stringer Plate, breadth and thickness		78	.38 ✓
„ Angle in Wells	5	5	.54 ✓	Plating, Sheathing , material and thickness ...		.30	✓
Thickness of Plating abreast Deck openings) in way of Wells .....			.52 ✓	Bridge Deck.			
Thickness of Plating abreast Deck openings) in way of Bridge .....			.30 ✓	Stringer Plate, breadth and thickness.....		33	.30 ✓
If Sheathed, material and thickness			✓	Plating, Sheathing, material and thickness ...	<i>P. P.</i>	2 1/2	✓
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...			✓	Stringer Plate, breadth and thickness.....		20	.30 ✓
				Plating, Sheathing, material and thickness ...	<i>.30</i> <i>.40</i>	<i>2 1/2</i> <i>2 1/2</i>	<i>✓</i> <i>✓</i>

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	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.		
FLAT PLATE KEEL	42	.50	.48	.48		double	3/4	4 dia	treble	7/8	3 1/2 dia	Lapped	
„ DBLG. (if any)		—											
BOTTOM PLATING, No. of Strakes <i>None</i>.....		.41	.39	.41		double	"	"	Tre to Dble.	3/4	"	"
BILGE PLATING, No. of Strakes <i>None</i>.....		.40	.36	.40		single	"	"	"			
SIDE PLATING, No. of Strakes <i>None</i>.....		.40	.36	.40		"	"	"	double	3/4	"	"
UPPER DECK, Sheer- strake in Wells.....	45	.54	.36	.36					treble	7/8	"	"	
UPPER DECK, Sheer- strake in Bridge ... <i>R&DK</i>		.46				single							
STRAKE BELOW Sheer- strake in Wells.....		.48	.36	.36		double	7/8	"	treble to Double	3/4	"	"	
STRAKE BELOW Sheer- strake in Bridge ...													
POOP SIDE PLATING <i>R&DK</i>		.46	.36			single	3/4	"	treble to double	3/4	"	"	
BRIDGE SIDE PLATING ...		.30				single	3/4	"	single	3/4	"	"
FORE'C'TLE SIDE PLATING		.30				single	3/4	"	single	3/4	"	"	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 4 ✓
 Extending to Upper Deck (Sec. 8 c) ~~or~~ PQRK 4
 „ Deck next below 4 ✓
 As per Rule 4 ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		<i>Plate keel</i>		
STEM	<i>Rolled</i>	<i>7 x 1 7/8</i>	<i>Jonas + Cochrane</i>	
STERN FRAME { Propeller Post	<i>Forging</i>	<i>6 3/4 x 4 5/8</i>	<i>Cleveland</i>	
{ Rudder	"	<i>6 x 4 5/8</i>	<i>2d</i>	
RUDDER—A x D		<i>126.7</i>		
Speed of Vessel		<i>10 1/2 knots</i>		
RUDDER mainpiece at head ...	<i>Forging</i>	<i>5 1/2</i>	<i>Cleveland Rd.</i>	
" " heel ...		<i>4 3/4</i>		
" how constructed	<i>heads & mainpiece in one</i>	<i>arms shrunk & stayed</i>		
" double or single plate		<i>single plate</i>		
" coupling, vertical or horizontal		<i>no coupling</i>		

STEEL.

"		"		
"	"	"	Holds .....	.44 .28 BA 6 $\frac{1}{2}$ x3x 42 / 36
"	"	(in Hold) .....	.36 .26	BA 6 $\frac{1}{2}$ x3x34 1'9"
"	"	" .....	.35-.28	5 $\frac{1}{2}$ x3x46 s'-o" tunnel top mid.

STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the Vessel (state process of manufacture) *South Durham, Bolckow & Vaughan's*
Cango Steel / open hearth process

Has the Steel been tested as required by the Rules? *Yes*

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.)

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	15-1-3	15-1-10	MB. Dusseldorf	1853	21-2-24
	2nd "	15-0-27	15-1-6	MB. Dusseldorf	1852	21-2-24
	3rd "	14-3-13	14-3-20	MB. Dusseldorf	1897	26-3-24

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. 96.3 ft., Bridge 13.4 ft., Forecastle 28.5 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *R.Q.D. joined to bridge*

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book)
one dk (stl) "well dk"

Official No. 148093 ; Signal Letters
particulars of composition *portland Cement.* If bottom of Vessel has been coated Inside *yes*

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, (<i>Feed Tank</i>)	19.16	22.5	Deep tank, aft, <i>at sides of Tunnel</i>	30.66	105.6
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	116.00	135.0	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.

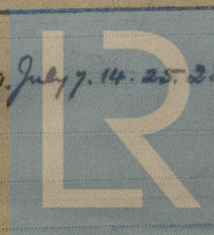
Order for Special Survey No. 5081

Date

17/6/24

Dates of Surveys held while building

1924
May 16, 20, 21, 22, 23, 27, 30, June 3, 5, 12, 16, 18, 19, July 7, 14, 25, 28, Aug 5, 6, 8, 14, 15, 20, 21, 22, 25.
Sep. 17, 18, 24, 25, 26, Oct. 1, 3.



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