

RECEIVED

28 AUG 1944

IN D.O.

## STEEL STEAMER OR MOTORSHIP.

26 AUG 1944

Received at London Office

State if Report has been sent on the Freeboard of the Vessel

State if Report is sent on the Machinery of the Vessel

Date of completion of report

14th August 1944

Port of

NEWCASTLE-ON-TYNE

No. 102296

Survey held at

South Shields

Date First Survey (1943) Oct. 4th

Last Survey 4th August 1944

On the

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

Star Single screw "EMPIRE MOULMEIN"

Machinery Amidships

State Type

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

Intermediate between FS &amp; CSS

State Type of Erections

File only

TONNAGE under Tonnage Deck

6546.24

CLASS

+100.A.1.

State if with freeboard as condition of Class

Yes

Built at

South Shields

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 425.00

Launched

8/6/44

Yard No. 540

Total

Breadth (greatest moulded)

B 56.00

Builders

John Ruskhead &amp; Co. Ltd.

Gross Tonnage

7044.49

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

D 34.66

Owners

Ministry of War Transport

Register Tonnage

4441.25

1st Longitudinal Number (L x D)

15193.45

Managers

Port Line Ltd

(Where necessary to be entered in Reg. Book)

## REGISTERED DIMENSIONS.

FEET

Length

420.9

Breadth

56.2

Depth

35.2

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

23.3

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

11.24

Do. Long Bridge to top of keel

Draught Moulded

26' 4 1/2"

Residence

London

Port of Registry

South Shields

If surveyed while building, afloat, or in dry dock

Building

## 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.
FRAMES, Spacing amidships	31	✓	Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	24	✓	" " Reversed Frame		✓
" " in peaks	24	✓	" " Vertical Struts		✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	42 1/2 x 84	✓
Frame Amidships, Angle, [ or ]	12 x 3 1/2 x 3/8	✓	" " top Angles	Double 3 1/2 3 1/2 48	✓
" " Extends up to	2nd & Upper deck alternately	✓	" " bottom Angles	Double 4 4 54	✓
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	4 x 6 x 1/2 L. Strake 6 x 3 x 1/2 L	✓
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	36 x 5 1/2	✓
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 x 6 x 1/4 Single	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	as above	✓	" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	6 x 6 x 1/4 Single	✓
" " Second 'tween Decks, Angle, [ or ]			" " Gussets, spacing and scantling abaft 1/4 len. from stem	14 x 1/2	✓
" " Third			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	14 x 1/2	✓
" " from 1/2 len. for'd. to 15% len. from Stem	12 x 3 1/2 x 7/16	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	94 1/2 x 1/4	✓
" " in Peaks, Angle or [	8 3 1/2 35	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 Multiple Spacing 4 x 1/2 5 1/2	✓	Breadth and thickness of Middle Line Strake	7 1/2 x 50	✓
State if Frame Joggled	Yes	✓	Thickness of remainder in Holds	1/4	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes	✓	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	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	✓	BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	8 3 1/2 42	✓
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, [ or ]		
Height of Brackets at side above base line at toe of frame			Spacing	31	✓
Middle Line Keelson, on Floors, Angles, [ or ]			Second Deck, amidships, Angle, [ or ]	9 3 36	✓
" " Through Plate or Inter-costal Plate			Spacing	31	✓
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [ or ]		
" " Flat Plate Keel Angles			Spacing		
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [ or ]		
" " thickness of Inter-costal Plate			Spacing		
" " Angles			Poop Deck, Angle, [ or ]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	42 @ 31	✓	Bridge Deck, Angle, [ or ]		
" " Are Frame and Reversed Frame joggled?	Yes	✓	Spacing		
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, [ or ]	9 x 34 42	✓
" " breadth and thickness at margin plate			Spacing	6 x 5 x 44	✓



## 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> .....		✓		Stringer Plate, breadth and thickness in way of Bridge .....	✓		
„ in 'tween Decks, Size and Spacing .....		✓		Thickness of Plating abreast Deck openings <del>in way of Walls</del> .....	2 ✓		
„ „ „ „ „		✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓		
„ in Holds „ „ „		✓		Thickness of Plating within line of openings...	34 ✓		
„ „ „ „ „		✓		If Sheathed, material and thickness.....	✓		
<b>Centre Line Bulkhead.</b>				<b>Third Deck.</b>	✓		
Stiffeners and Spacing .....	12 x 3 1/2 x 3 1/2 x 45 [ @ 6' ✓			Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of .....	30. ✓			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 <del>in Walls</del>	65 3/8 x 65 ✓			If Plated, state thickness.....	✓		
„ „ „ „ in way of Bridge	✓			<b>Poop Deck.</b>	✓		
„ Angle <del>in Walls</del> .....	6 x 6 x 60 ✓			Stringer Plate, breadth and thickness.....	✓		
Thickness of Plating abreast Deck openings } <del>in way of Walls</del> .....	38 ✓			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...	40 ✓			Stringer Plate, breadth and thickness.....	✓		
If Sheathed, material and thickness.....	2 1/2" O.P. on up run water ✓			Plating, Sheathing, material and thickness ...	✓		
<b>Second Deck.</b>				<b>Forecastle Deck.</b>	32 ✓		
Stringer Plate, breadth and thickness <del>in Walls</del>	82 3/4 x 38. ✓			Stringer Plate, breadth and thickness.....	32 ✓		
				Plating, Sheathing, material and thickness...	32 (unthatched) ✓		

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No.</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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.....	<i>64</i>	<i>80</i>	<i>70</i>	<i>70</i>		<i>Double</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Three</i>	<i>1/4</i>	<i>4"</i>	<i>Double straps welded attachment</i>	
„ Dblg. (if any)	<i>-</i>												
Bottom Plating, No. of Strakes <i>4</i> .....	<i>A.C.D.</i>	<i>66</i>	<i>50</i>	<i>50</i>		<i>Double</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Four</i>	<i>1/8</i>	<i>3 1/2</i>	<i>A.C. Capped 5" wide straps.</i>	
Bilge Plating, No. of Strakes.....	<i>E</i>	<i>64</i>	<i>50</i>	<i>50</i>		<i>Double</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Four</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Double straps.</i>	
Side Plating, No. of Strakes <i>4</i> .....	<i>F.G.</i>	<i>60</i>	<i>45</i>	<i>45</i>		<i>Double</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Three</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Lapped.</i>	
Upper Deck, Sheer- strake in Wells.....	<i>K.W.</i>	<i>73</i>	<i>46</i>	<i>46</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>Four</i>	<i>1"</i>	<i>6"</i>	<i>"</i>	
Upper Deck, Sheer- strake in Bridge ...													
Strake below Sheer- strake in Wells.....													
Strake below Sheer- strake in Bridge ...													
Poop Side Plating.....													
Bridge Side Plating.....													
Forecastle Side Plating			<i>40</i>			<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>Single</i>	<i>3/4</i>	<i>2 1/8</i>	<i>Capped.</i>	

## WATERTIGHT BULKHEADS

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

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<del>KEL</del> Bar	<i>rolled steel</i>	<i>10-3/4"</i>	<i>1.50 plates.</i>	<i>1/2 inch thick.</i>
STEM				
STERN FRAME	Propeller Post ..... Rudder .....	<i>fabricated as per          appx plan.          under 12 knots</i>		
Speed of Vessel		<i>Ordinary</i>		
RUDDER—Type		<i>560</i>		
" A × D.				
" Diam. of head		<i>11 3/4"</i>		
" Mainpiece at top pintle				
" " heel		<i>8 1/2"</i>		
" how constructed		<i>Reinforced frame, welded to main piece</i>		
" double or single plate coupling, vertical or horizontal		<i>Double plate .60</i>		
		<i>Vertical</i>		

# STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth.*  
*Crescent Iron Co - Skinninggrove Iron Co - Appleby Works - South Durham - Steel Castings Co*  
*Scotland - Bothwell Works - Remond's Steel Co - Gorge Works*  
 Has the Steel been tested as required by the Rules? *Yes.*



EQUIPMENT No. <i>40032-43</i>				LETTER <i>af</i>				ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested, and Superintendent.
<i>44892</i>	1st Bower...	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
<i>44899</i>	2nd "	<i>68</i>	<i>2</i>	<i>21</i>	<i>68</i>	<i>1</i>	<i>14</i>	<i>52</i>	<i>18</i>	<i>3</i>	<i>0</i>
	3rd "										
	Collective weight										
<i>2500</i>	Stream	<i>19</i>	<i>2</i>	<i>0</i>	<i>4</i>	<i>8</i>	<i>14</i>	<i>20</i>	<i>6</i>	<i>1</i>	<i>0</i>

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and size per Table 53.	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 53.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
<i>3661</i>	<i>240</i>	<i>2</i>	<i>100.8</i>	<i>141.1</i>	<i>584</i>	<i>1</i>	<i>0</i>	<i>420.75</i>	<i>240</i>	<i>3 1/4</i>	<i>Layco. S. Taylor &amp; Son.</i>	<i>Met. 24/3/44. Ref.</i>		TOWLINE	<i>120</i>	<i>4 1/4</i>	<i>64.6</i>	<i>120</i>	<i>4 1/4</i>
														HAWSERS & WARPS	<i>2090</i>	<i>2 3/4</i>	<i>15.4</i>	<i>2090</i>	<i>2 3/4</i>
															<i>2075</i>	<i>2 1/2</i>			
															<i>2090</i>	<i>7 1/2</i>	<i>Vanilla</i>	<i>2090</i>	<i>22 1/2</i>
<i>Stream Cable Steel Wire</i>	<i>90</i>	<i>5</i>	<i>12.8</i>						<i>90</i>	<i>5</i>									

Steering Gear, Type (Power or hand) *J. Marti & Co. (Steam telegraph)* Alternative Means of Steering *Blocks, Tackle from aft. wheel*

Steering Chains (Size and Test) *2 1/2" one link only.* Windlass *Clarke, Chapman & Co.* Boats *Whaler, 3 ordinary.*

Ceiling in Holds, thickness and material *T.T. + 1/8" in way of hatchways.* Cargo Battens, thickness, material and spacing *1st. Jitter.*

Cargo Hatchways.—(Upper Deck) *Steel plates & angles.* Thickness of Hatches *2 1/2", 3"*

Size of Hatchways No. 1 (Fwd.) *31'6" x 20'* No. 2 *31' x 20'* No. 3 *31' x 20'* No. 4 *12'11" x 20'* No. 5 *31' x 20'* No. 6 *31' x 20'*

Number of Shifting Beams and/or Fore and Afters *5' - 5' - 5' - 1' - 5' - 5'*

FOR JOHN READHEAD & SONS LTD.

Builder's Signature *John Readhead* MANAGING DIRECTOR, *14.8.44*

GENERAL DECLARATION. It should be stated (a) whether the vessel, (if not a motorship) is fitted for the carriage and burning of oil used as fuel *No*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No*. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation)

*This ship has been built in conformity with the Society's Rules & Regulations and the Secretary's Letter. The scantlings & arrangements are in accordance with, or equivalent to, those shown on the approved plans. The materials & workmanship are good. The double bottom, peak and deep tanks have been tested by water pressure & the W.Y. plates, weather decks, stunnel have tested as required by the Rules & found satisfactory. The pumping arrangements have been tested. The windlass, steering & auxiliary steering gear have been operated under power as the vessel lay at the builders quay & found satisfactory. The assigned freeboards have been marked on the vessel's sides, verified, and in paint. Windows & directional windows are fitted. The equipment of anchors has been reduced in accordance with Emergency Regulations & as per Secretary's Letter. Cargo battens are not fitted in the holds & tween decks.*

*Int. Wood hatch covers are fitted to all hatchways on 2nd deck.*

The amount of Entry Fee *£10 - -* Fees applied for, *22 AUG 1944*

Special Survey Fee *376 3 6* Received by me, *19*

*Supervising Spec. Travelling Expenses, if any £94 - - 9*

State whether the Vessel has been built under Special Survey *Yes*

I am of opinion the Vessel should be Classed *+100A-1 with freeboard.*

Signature *A. H. H. H.* Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Marshall's n. Lys.* Date of issue *20/8/44*

Committee's Minute

Character assigned *+100A1 with Freeboard*

*Lloyd's A.R.P.: LMC 8.44*

*20 Cl.*

*2 SR (Sph) x 1 Amx SR*

*220lb*

*Write Dec (m)*

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



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.)

Partially fabricated 8 Lys mount, similar to same Builders No 536. Empire Fickish  
Newcastle Report No. 101664. Vessel prepared to receive insulation in Nos 2, 3, 15 Hull, T.D. L.  
Machinery fitted, Machinery Room & Cooler spaces insulated. Insulation of Hull, T.D. L.  
to completed in Canada.

Certificates.  
Lugger, Liller  
Kunden Head & frame.  
Stem frame  
Mast.  
Merrich Post  
Winches.

Fabrication certificate 21. 10. 1943

Plans in London Office 6. 10. 40

PARTICULARS OF ELECTRIC WELDING (if employed)

200 lb. Straps chock plates. Bulkhead Bracket L. Tank Top. Gussies L. Margin. -  
Bottom of plate has rivet joints. Tunnel sides. Deep & peak tank top to shell.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Carlo bottom not fitted. - 50 E.S.D. - D.F.

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

1st Bower  
2nd "  
3rd "

Weight + pin 45-1-4. - J.H.T. - 5428 - 6.4.43.  
44.2-14. - J.H.T. - 5542 - 2.4.43.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle 39.25 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 180219 Signal Letters G.B.T.C. Extreme Breadth over Belting Over-all Length 446' 4 1/2"

No. and Material of Decks 2 Decks (Steel).

Parts of Bottom of Vessel coated with cement or approved composition

Boiler room double bottom tank & larger only  
Kumanku cement washed.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft.	62'	235	Fore peak tank, Low 110T. 43	20'	105
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, under Engines only, (F.W.)	28.42	130.	Deep tank, aft, tank in way of tunnel		345
Double bottom, under Boilers only,	18.05	85	Deep tank, forward, Total (P.B.)		280
Double bottom, forward,	209.75	825	Other tanks, if fitted,		
Total length (if continuous) and Capacity	318.25	1240	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 5706

Date 28/1/44

Dates of Surveys held while building

(1943) Oct. 4, 25. Nov. 15, 22, 29 Dec. 13, 22, 24, 30 (1944) Jan. 7, 14, 19, 21, 25, 28, Feb. 1, 4, 10, 16, 21, 23 March, 2, 10, 13, 20, 27, 29 April, 4, 7, 11, 12, 15, 21, 24, 28, May 5, 6, 8, 11, 17, 23, 25, 26, 30 June 2, 4, 5, 6, 8, 9, 13, 21, 22, 26 July 3, 4, 11, 12, 17, 19, 26, 31 Aug. 1, 2, 3, 4

Total No. of Visits 70