

STEEL STEAMER OR MOTORSHIP.

120 APR 1942

Received at London Office

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

17th April 1942

Port of

Sunderland

No. 33374

Survey held at

Sunderland

Date First Survey

25th Aug 41

Last Survey

14th April 1942

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

SS. EMPIRE BARRIE Single Screw

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

Intermediate between F.S. & C.S.S.

State Type of Erections

TONNAGE under Tonnage Deck ...

6722.38

CLASS

+100 A.1

State if with freeboard as condition of Class

YES

Built at

Sunderland

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 416'0"

Launched 17th January 1942 Yard No. 615

Breadth (greatest moulded)

B 56'10 1/2"

Builders J.L. Thompson & Son Ltd

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

D 37'4"

Owners Ministry of War Transport

1st Longitudinal Number (L x D)

D=36.58 15217

Managers Allen Black & Co

2nd Numeral L x (B + D)

D=36.58 38870

(Where necessary to be entered in Reg. Book)

Residence

REGISTERED DIMENSIONS.

FEET

Length

423.80

Breadth

57.20

Depth

34.90

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

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

11.14

Do. Long Bridge to top of keel

Draught Moulded

26'9 3/8"

Port of Registry Sunderland

If surveyed while building, afloat, or in dry dock

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.
FRAMES, Spacing amidships.....	30		Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead.....	27		" " Reversed Frame.....		
" " in peaks	24		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x 54	
Frame Amidships, Angle, [or]	12 x 4 x 4 x 16		" " top Angles	3 1/2 x 3 1/2 x 7/16	
" " Extends up to.....	2 nd Deck.		" " bottom Angles.....	4 x 4 x 1/2	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness.....	One 6 x 3 1/2 x 7/16	continuous top & bottom.
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	41 x 54	
Depth of Framing Girder.....	12		Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 x 4 x 7/16 T.	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 x 3 1/2 x 2 1/2		Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area Gussets, spacing and scantling abaft 1/2 len. from stem	6 x 6 x 1/2 T.	
" " Second 'tween Decks, Angle, [or]			" " from forward 1/2 len. from stem to Panting Area Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	10 1/2 x 40 fl. 2" continuous	
" " Third			" " at toe of Frame and thickness	17 x 40 fl. 2" do.	
" " from 1/2 len. for'd. to 15% len. from Stem	15 x 4 x 4 x 1/2		Tank Side Brackets, height above base line at toe of Frame and thickness	10 1/4 x 45	
" " in Peaks, Angle or [or]	8 x 3 1/2 x 35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 3/4		Breadth and thickness of Middle Line Strake	59 1/2 x 50	40 x 21.9
State if Frame Joggled.....	YES.		Thickness of remainder in Holds	44	
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 in Wells, Angle, [or]	8 x 3 1/2 x 7/16	
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	every	
Middle Line Keelson, on Floors, Angles, [or]			Second Deck, amidships, Angle, [or]	12 x 4 x 4 x 7/16	
" " Through Plate or Inter-costal Plate			Spacing	every	
" " 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]		
" " Spacing.....			Spacing.....		
DOUBLE BOTTOM.			Bridge Deck, Angle, [or]		
Solid Floors, thickness and spacing	36 every		Spacing.....		
" " Are Frame and Reversed Frame joggled?	YES.		Forecastle Deck, Angle, [or]		
Bracket Floors, breadth and thickness at middle line			Spacing.....		
" " breadth and thickness at margin plate.....					

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	One	✓		Stringer Plate, breadth and thickness in way of Bridge	✓		
„ in 'tween Decks, Size and Spacing	6x6x $\frac{5}{8}$ angle @ 5'0" ✓			Thickness of Plating abreast Deck openings in way of Wells	✓	35	✓
„ „ „ „ „	✓			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.....	✓		
Centre Line Bulkhead. in holds	12x3 $\frac{1}{2}$ =43 L ✓			Third Deck.			
Stiffeners and Spacing	@ 5'0" ✓			Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	30 ✓			If Plated, state thickness	✓		
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	61 $\frac{1}{2}$ x64 ✓			If Plated, state thickness.....	✓		
„ „ „ „ in way of Bridge	✓			Poop Deck.			
„ Angle in Wells	6x6x $\frac{5}{8}$ ✓			Stringer Plate, breadth and thickness.....	✓		
Thickness of Plating abreast Deck openings in way of Wells	55 ✓			Plating, Sheathing, material and thickness ...	✓		
Thickness of Plating abreast Deck openings in way of Bridge.....	✓			Bridge Deck.			
Thickness of Plating within line of openings...	40 ✓			Stringer Plate, breadth and thickness.....	✓		
If Sheathed, material and thickness.....	✓			Plating, Sheathing, material and thickness ...	✓		
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells	49 $\frac{1}{2}$ x43 ✓			Stringer Plate, breadth and thickness.....	✓		
				Plating, Sheathing, material and thickness...	✓		

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	8BH/Gell to Work, 4 to 2nd dk) 5 original W.T. BHs in lower dks
Extending to Upper Deck (Sec. 3 c).....	7 Openings in 'lower dk
„ Deck next below.....	1 BHs closed in accordance with MS 1835 of 21.3.40
As per Rule.....	7 See 'Hd Rpt

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM		<i>Roll'd 10 x 2 1/2</i>		
STERN FRAME {	Propeller Post	<i>Fabricated as per</i>		
	Rudder	<i>plan</i>		
Speed of Vessel				
RUDDER—Type				
" A x D		<i>282.2</i>		
" Diam. of head		<i>9 1/2</i>		
" Mainpiece at top pintle		<i>18</i>		
" " heel		<i>9 1/4</i>		
" how constructed		<i>✓</i>		
" double or single plate		<i>62</i>		
" coupling, vertical or		<i>Horizontal</i>		
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks	N ^o 93 ✓ .26 ✓	6 × 3½ × ¾ OA. ✓			
"	" Second "	✓				
"	" Third "	✓				
"	" Holds .....	.39 - .26	12 × 3½ × 45L ✓	31" ✓		
COLLISION	" (in Hold) .....	.53 - .33	7 × 3 × ¾ L ✓	24 ✓	25B. beams Flats, &c.	
AFTER PEAK	" " .....	.49 - .30	7 × 3 × ¾ L ✓	24 ✓	Recessed 4 ft 25B. beams	

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Heart*
South Durham, Skinningrove, Consett, Lorman Long, Appleby, Loughborough

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.)

Sister Vessel. SS. EMPIRE LIBERTY Sld. Rpt. No. 33249
SS. — HALLEY — 33270
SS. — JOHNSON — 33300
SS. — NOMAD — 33334

PARTICULARS OF ELECTRIC WELDING (if employed)

2nd deck stringer plate welded to shell, T.S. gussets welded to tank top & to T.S. brackets, tween deck pillars welded to deck, & bulkhead stiffeners welded to tank top, ventilator casing & small latches welded to deck.

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

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

1st Bower

44

3

21

K.L.

4393

14.11.41

2nd "

44

1

21

K.L.

4347

25.10.41

3rd "

45

45

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 or Forecastle are joined to the B.D., this should be distinctly stated ☒

Official No. 169016

Signal Letters

Extreme Breadth over Belting ☒

Over-all Length

441-5"

No. and Material of Decks

2 Steel Decks

Parts of Bottom of Vessel coated with cement or approved composition

All D.B. tanks cemented.

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,	135.00	306	Fore peak tank,	23	145
Double bottom, under Engines and Boilers,			After peak tank,	24	160
Double bottom, if under Engines only,	25.00	106	Deep tank, 20 20	20	773
Double bottom, if under Boilers only,	20.00	✓	Deep tank, forward,		
Double bottom, forward,	188.25	648	Other tanks, if fitted,		
Total length (if continuous) and Capacity	368.25	1060	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 5985

Date 7.5.41

Dates of Surveys held while building

1941. Aug. 25, 27, 28, 29. Sep. 1, 3, 5, 8, 10, 11, 23, 25, 30. Oct. 1, 3, 7, 8, 9, 11, 13, 14, 15, 16, 22, 24, 28, 31.
Nov. 4, 7, 11, 12, 18, 19, 21, 25, 26. Dec. 1, 2, 5, 9, 11, 15, 17, 19, 22, 23, 26, 29. 1942. Jan. 2, 6, 9, 12, 14, 16, 20.
Feb. 2, 6, 10, 12, 19, 24, 27, 30, 31. Apr. 3, 8, 13, 14.
Apr. 20, 24, 26, 28, 30. May 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Jun. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Jul. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Aug. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Sep. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Oct. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Nov. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30. Dec. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30.

Total No. of Visits 68