

STEEL ~~STEAMER~~ OR MOTORSHIP.

138 OCT 1945

Received at London Office 34 314

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..... Port of Sunderland No. 3761Survey held at Sunderland Date First Survey..... Last Survey..... 19.....On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) MV EMPIRE SEN LAC Single Screw, Machinery AftState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Roof, Side

TONNAGE under Tonnage Deck... 3076.65

Do. of space or spaces between Tonnage Dk. and Upper Dk. 1

Total 1

Gross Tonnage 3771.22

Register Tonnage 2008.34

CLASS +100A.1. State if with freeboard as condition of Class No

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 335-0"

Breadth (greatest moulded) 48-0"

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 26-9"

1st Longitudinal Number (L x D) 8700

2nd Numeral L x (B + D) 24800

Framing Depth "d," at middle of length. See Sec. 3 (1d) 12-52

Proportions—Depth to Length—Uppermost continuous deck to top of keel 21-9 1/4"

Do. Long Bridge to top of keel 21-9 1/4"

Draught Moulded 21-9 1/4"

Built at Sunderland

Launched 27.6.45 Yard No. 642

Builders J.L. Thompson & Son Ltd.

Owners M.O.W.T.

Managers Bulth. Gil. S.S. Co. Ltd
(Where necessary to be entered in Reg. Book)

Residence 1

Port of Registry Sunderland

If surveyed while building, afloat, or in dry dock YES

REGISTERED DIMENSIONS.

FEET

Length 343.5

Breadth 48.3

Depth 26.5

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.....	<u>24</u> ✓		Bracket Floors, Frame	<u>1</u>	
" " from 1/2 length amidships to Collision bulkhead.....	<u>1</u>		" " Reversed Frame.....	<u>1</u>	
" " in peaks	<u>24</u> ✓		" " Vertical Struts	<u>1</u>	
SIDE FRAMING. <u>Longitudinal</u> ✓			Centre Girder, depth and thickness <u>amidships</u> <u>52 x 39 1/4 x 47</u> ✓		
Frame Amidships, Angle, <u>C</u> or <u>E</u>	<u>1</u>		" " top Angles	<u>3 1/2 x 3 1/2 x 7/16</u> <u>app'd 3-3</u> ✓	
" " Extends up to.....	<u>1</u>		" " bottom Angles.....	<u>3 1/2 x 3 1/2 x 7/16</u> ✓	
Reversed Frame Amidships, Angle	<u>1</u>		Side Girders, No. each side and thickness.....	<u>20 508 60</u> ✓	
" " Extends up to	<u>1</u>		Margin Plate depth (excl. of flange) and thickness	<u>1</u>	
Depth of Framing Girder.....	<u>1</u>		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<u>1</u>	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>C</u> or <u>E</u>	<u>1</u>		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	<u>1</u>	
" " Second 'tween Decks, Angle, <u>C</u> or <u>E</u>	<u>1</u>		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	<u>1</u>	
" " Third	<u>1</u>		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	<u>1</u>	
" " from 1/2 len. for'd. to 15% len. from Stem	<u>7 x 3 1/2 x 33</u> <u>to Poop.</u> ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<u>1</u>	
" " in Peaks, Angle or <u>C</u> ✓	<u>7 x 3 x 33</u> <u>to Fore</u> ✓		INNER BOTTOM PLATING. <u>Aft.</u>		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>1</u>		Breadth and thickness of Middle Line Strake.....	<u>428 47</u> ✓	
State if Frame Joggled.....	<u>1</u>		Thickness of remainder <u>in Holds</u>	<u>428 47</u> ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<u>YES</u> ✓		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?.....	<u>1</u>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	<u>YES</u> ✓		BEAMS.		
SINGLE BOTTOM. <u>In Centre Tanks.</u> ✓			Uppermost Continuous Deck, amidships in Wells, Angle, <u>C</u> or <u>E</u>	<u>Long 1</u> ✓	
Floors, Depth and thickness at mid-line in Holds.....	<u>1</u>		" " in way of Bridge, Angle, <u>C</u> or <u>E</u>	<u>1</u>	
Height of Brackets at side above base line at toe of frame.....	<u>1</u>		" " Spacing	<u>1</u>	
Middle Line Keelson, <u>on</u> Floors, Angles, <u>E or F</u>	<u>3 1/2 x 3 1/2 x 3/8</u> ✓		Second Deck, amidships, Angle, <u>C</u> or <u>E</u>	<u>1</u>	
" " Through Plate or Inter-costal Plate	<u>38</u> ✓		" " Spacing	<u>1</u>	
" " Foundation Plate on Floors	<u>1</u>		Third Deck, amidships, Angle, <u>C</u> or <u>E</u>	<u>1</u>	
" " Flat Plate Keel Angle <u>6 x 6 x 1/2</u> ✓	<u>6 x 6 x 1/2</u> ✓		" " Spacing.....	<u>1</u>	
Side Keelsons, No. each side.....	<u>1</u>		Fourth Deck, amidships, Angle, <u>C</u> or <u>E</u>	<u>1</u>	
" " thickness of Intercoastal Plate.....	<u>1</u>		" " Spacing.....	<u>1</u>	
" " Angles	<u>1</u>		Poop Deck, Angle, <u>E</u> or <u>C</u> <u>trans</u> <u>6 x 3 x 3/8</u> <u>as app'd</u> ✓	<u>6 x 3 x 3/8</u> <u>as app'd</u> ✓	
DOUBLE BOTTOM. <u>Aft.</u>			" " Spacing.....	<u>every 14</u>	
Solid Floors, thickness and spacing	<u>36 every 14</u> ✓		Bridge Deck, Angle, <u>C</u> or <u>E</u>	<u>1</u>	
" " Are Frame and Reversed Frame joggled?	<u>YES</u> ✓		" " Spacing.....	<u>1</u>	
Bracket Floors, breadth and thickness at middle line	<u>1</u>		Forecastle Deck, Angle, <u>E</u> or <u>C</u> <u>trans</u> <u>6 x 3 1/2 x 5/16</u> ✓	<u>6 x 3 1/2 x 5/16</u> ✓	
" " breadth and thickness at margin plate.....	<u>1</u>		" " Spacing.....	<u>every 14</u>	

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.					
		In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverse and Bulkheads.		Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.	Inches.	Number.	Diameter.	
Framing of L, L or C																			
Frames in Bridge 'tween Decks																			
Frames from Uppermost Continuous Deck	No. 1	8x3 1/2x35												7/8	5/16	throughout			
	" 2	do.												do.		do.			
	" 3	8x3 1/2x7/16												do.		do.			
	" 4	9x3 1/2x3/8												do.		do.			
	" 5	do.												do.		do.			
	" 6	9x3 1/2x7/16												do.		9 Rivs @ 4			
	" 7	do.												do.		do.			
	" 8	10x3 1/2x7/16												do.		do.			
	" 9	12x3 1/2x3 1/2x30 ch.												7/8	4 7/8	12 Rivs @ 3 1/8 Rivs spaced 3 1/8 in N°1 Tank			
	" 10																		
	" 11																		
	" 12																		
	" 13																		
	" 14																		
	" 15																		
	" 16																		
Spacing of Longitudinal Frames	Amidships	30, 33 1/2, 34 1/2																	
	At Ends																		
Double Bottoms	Tank Top Longitudinals																		
	Bottom	15x4x4x43/62 ch.												7/8	4 7/8	12 Rivs @ 3 1/8 Rivs spaced 3 1/8 in N°1 Tank			
Spacing of Longitudinals	Amidships	36																	
	At Ends																		
Bottom Transverses.																			
Centre In Bridge Tanks 'tween Decks	Depth and Thickness	39x42																	
	Face Angles	6x3 1/2x3/8 OA @ 9'1 1/2"																	
	Lugs to Shell*	welded																	
Wing Tanks in Upper 'tween Decks	Depth and Thickness	33x40																	
	Face Angles	6x3 1/2x3/8 OA																	
	Lugs to Shell*	6x6x3/8 inter.																	
Side Transverses in Hold	Depth and Thickness	30x40 fl. 6"																	
	Face Angles																		
	Lugs to Shell*	6x6x3/8 inter.																	
	Back Bars																		
	Brackets	flanged. 36 & 40																	
Spacing of Transverse Frames		9'1 1/2" & 10'10 1/2"																	
	State if joggled or liners.																		
Longitudinal Beams of L, L or C	Bridge Deck																		
	Upper	8x3 1/2x7/16																	
	Second																		
	Third																		
	Transverse Beams.																		
		26x36 fl. 6" centre tanks																	
		24x36 fl. 3 1/2" wing tanks																	

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

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 M.V. Empire Arrow Sld. Rpt. No. 34263.

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of shell and upper deck plating welded; long¹ bulkheads and transverse bulkheads in centre tanks welded to shell and to deck; transverse bulkheads in wing tanks welded to deck; flats & stringers ahead, tank top plating aft, welded to shell; transverse in centre tanks welded to shell; bulkhead girders welded to bulkheads; engine room transverse welded to tank top; hatch coaming welded to deck.

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

Butts of Shell & Upper Deck Plating welded D.F. ; E.S.D.

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

including pen	33	1	14	CED	3338	15.2.45.
1st Bower	33	0	14	CED	3337	15.2.45.
2nd "						
3rd "						

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 87.29 ft., R.Q.D. ft., Bridge ft., Forecastle 33.08 ft.

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

Official No. 180169 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 357.7" (Circ. 1703)
No. and Material of Decks 1 Steel Deck.
Parts of Bottom of Vessel coated with cement or approved composition
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. 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,	18.5	99
Double bottom, if under Engines only,	62.5	66	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	13.5	275
Double bottom, forward,			Other tanks, if fitted,	3.6	99
Total length (if continuous) and Capacity	62.5	66	(If necessary furnish further information by sketch)	3.0-5.25	41.5

Order for Special Survey No.

Date 24.8.44

Dates of Surveys held while building

1944, Dec 20, 21, 1945 Jan 4, Feb. 8, 13, 20, Mar. 7, 10, 19, 27, 29, Apr. 2, 10, 21, 23, 24, 25, 27, May 1, 3, 4, 7, 11, 14, 15, 17, 18, 22, 23, 24, 25, 28, 30, June 1, 4, 5, 7, 8, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 23, 25, 27, July 20, 25, Aug 8, 10, 28, 30, Sept. 7, 17, 19, 24, 28, Oct 1, 4, 9, 11,

Total No. of Visits 66