

## STEEL STEAMER or MOTORSHIP.

Received at London Office

10 APR 1942

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *from Hwa.*Date of completion of report. *9 April 1942*Port of *Sunderland*No. *33366*Survey held at *Sunderland*Date First Survey *26 June 1941*Last Survey *2 April**1942*

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

*S.S. EMPIRE MARVELL**Single Screw, Machinery Aft.*

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

*Full Scantling*

State Type of Erections

TONNAGE under Tonnage Deck... *8894.78*CLASS *+100A.1.*

State if with freeboard as condition of Class

*No*

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)

*147'-4 1/2"*Launched *17.1.42.*Yard No. *740*

Total

Gross Tonnage *9812.37*Register Tonnage *5782.08*

Breadth (greatest moulded)

*B 68'-0"*Builders *Sir James Laing & Sons 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 36'-0"*Owners *Ministry of War Transport*

1st Longitudinal Number (L x D)

*=*

Managers

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

2nd Numeral L x (B + D)

*=*

Residence

## REGISTERED DIMENSIONS.

FEET.

Length

*148'-0"*

Breadth

*68'-3"*

Depth

*36'-15"*

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

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

Do. Long Bridge to top of keel

Draught Moulded

*28'-0 1/4"*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	✓		Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead	✓		" " Reversed Frame	✓	
" " in peaks	24 x 21 ✓		" " Vertical Struts	✓	
SIDE FRAMING. Longitudinal ✓			Centre Girder, depth and thickness amidships	79 x 46 - 50 ✓	
Frame Amidships, Angle, [ or ]	✓		" " top Angles	3 1/2 x 3 1/2 x 7/16 ✓	
" " Extends up to	✓		" " bottom Angle	6 x 6 x 1/2 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 @ .44 ✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	✓		" " Vertical Angle to Tank side	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	✓		" " Bracket abaft 1/2 len. from stem	✓	
" " Second 'tween Decks, Angle, [ or ]	✓		" " Vertical Angle to Tank side	✓	
" " Third " " "	✓		" " Bracket from forward 1/2 len. from stem to Panting Area	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
" " in Peaks, Angle or [	9 x 3 1/2 x 3/8 ✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7 x 3 1/2 x 3/8 ✓	app'd 7 x 3 x 3/8 ✓	Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
State if Frame Joggled	✓		INNER BOTTOM PLATING.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES. ✓		Breadth and thickness of Middle Line Strake	47 x 54 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES. ✓		Thickness of remainder in Holds	✓	
SINGLE BOTTOM. In Centre Tanks. ✓			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?	✓	
Floors, Depth and thickness at mid-line in Holds	✓		BEAMS. Longitudinal ✓		
Height of Brackets at side above base line at toe of frame	✓		Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	✓	
Middle Line Keelson, on Floors, Angles	6 x 3 1/2 x 40 ✓		" " in way of Bridge, Angle, [ or ]	✓	
" " Through Plate or Intercoastal Plate	42 ✓		Spacing	✓	
" " Foundation Plate on Floors	✓		Second Deck, amidships, Angle, [ or ]	✓	
" " Flat Plate Keel Angles	6 x 6 x 60 ✓		Spacing	✓	
Side Keelsons, No. each side	✓		Third Deck, amidships, Angle, [ or ]	✓	
" " thickness of Intercoastal Plate	✓		Spacing	✓	
" " Angles	✓		Fourth Deck, amidships, Angle, [ or ]	✓	
DOUBLE BOTTOM. Aft. ✓			Spacing	✓	
Solid Floors, thickness and spacing	40 x 44 every ✓		Poop Deck, Angle, [ or ]	7 x 3 x 3/8 & as app'd ✓	
" " Are Frame and Reversed Frame joggled?	YES. ✓		Spacing	every ✓	
Bracket Floors, breadth and thickness at middle line	✓		Bridge Deck, Angle, [ or ]	✓	
" " breadth and thickness at margin plate	✓		Spacing	✓	
			Forecastle Deck, Angle, [ or ]	6 x 3 1/2 x 5/16 ✓	
			Spacing	every ✓	



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 in way of Wells .....	✓	
" " " " "	✓		Thickness of Plating abreast Deck openings in way of Bridge .....	✓	
" in Holds " "	✓		Thickness of Plating within line of openings...	✓	
<b>Two "LONG" " " "</b>	✓		If Sheathed, material and thickness .....	✓	
<del>Centre Line Bulkhead.</del>	9x3 1/2 x 46	app'd 9 1/2 x 3 1/2 x 40	<b>Third Deck.</b>		
Stiffeners and Spacing.....	to 6x3x34 @ 30		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of .....	50-36	see plan	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 Wells</del>	87x82		If Plated, state thickness .....	✓	
" " " " in way of Bridge	✓		<b>Poop Deck.</b>		
" Angle <del>in Wells</del>	8x8x82	app'd 7x7x82	Stringer Plate, breadth and thickness .....	39x38	
Thickness of Plating <del>abreast Deck openings in way of Wells</del>	76x66		Plating, Sheathing, material and thickness .....	29x24	
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness .....	✓		Plating, Sheathing, material and thickness .....	✓	
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	✓		Stringer Plate, breadth and thickness.....	36x41	
			Plating, Sheathing, material and thickness .....	27	

SCANTLINGS.				AS IN VESSEL.		ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			RIVETING.				
STRAKES.	AMIDSHIPS.		FORWARD.		STATE IF Joggled?		No.		No. OF ROWS OF RIVETS.	BUTTS.		STRAFFED OR LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	RIVETS.		Diam.	RIVETS.			
	Inches.	Inches.	Inches.	Inches.				Diam.			Spacing or to c.		Diam.	Spacing or to c.
FLAT PLATE KEEL .....	54	1.00	1.00	.86		D.	1 1/8	4	3	1 1/8	4 1/2	DOUBLE STRAPS.		
" DBLG. (if any)		✓												
BOTTOM PLATING, No. of Strakes <i>ABC D</i>		.76	.87	.52		D.	1	3 1/2	5	1	4 1/2	L		
BILGE PLATING, No. of Strakes <i>E F G H</i>		.76	✓	✓		D.	1 1/8	3 1/2	5	1	4 1/2	L		
SIDE PLATING, No. of Strakes <i>I J K L</i>		.64	.48	.48		D.	7/8	3 1/8	3	7/8	3 1/8	L		
UPPER DECK, Sheer-strake <i>M N</i>	72 1/2	1.00	.46	.46		D.	1	3 1/2	3	1 1/8	4 1/2	DOUBLE STRAPS		
UPPER DECK, Sheer-strake in Bridge ...		✓												
STRAKE BELOW Sheer-strake <i>O P</i>		.77	.46	.46		D.	1 1/8	3 1/2	4	1	4	L		
STRAKE BELOW Sheer-strake in Bridge ...		✓												
POOF SIDE PLATING .....		✓	✓	.42		S.	7/8	3 1/8	2	3/4	2 5/8	L		
BRIDGE SIDE PLATING ...		✓												
FOREC'TLE SIDE PLATING		✓	.46	✓		S.	7/8	3 1/8	2	3/4	2 5/8	L		

<b>Total No. of W.T. BULKHEADS in Vessel—</b>						Casting or Forging.	Scantlings.	Maker's Name.	Any Depart- ure from Approv- ed Plans to be Sta-	
Extending to Upper Deck (Sec. 3 c)						<b>KEEL, Bar .....</b>				
Deck next below						<b>STEM .....</b>	ROLLED 12x3 1/8 ✓			
As per Rule						<b>STERN FRAME { Propeller Post .....</b>	FABRICATED AS			
						<b>{ Rudder " .....</b>	PER PLAN			
						<b>Speed of Vessel .....</b>	11 1/2 knots on apprd. plan			
						<b>RUDDER-Type.....</b>	FABRICATED AS			
						A x D .....	PER PLAN ✓			
						Diam. of head .....	11 ✓			
						Mainpiece at top pintle .....	✓			
						" " heel ...	✓			
						" how constructed .....	✓			
						" double or single plate .....	✓			
						" coupling, vertical or horizontal .....	✓			
STIFFENERS.						Midship Bulkhead, Upper Deck				
										Plating Thickness.
						VERTICAL.		HORIZONTAL.		
						Scantlings.	Spacing.	Scantlings.	Spacing.	
CENTRE TANKS.						56' 38"	12' 3 1/2"	3 1/2"	42'	2 GIRDEES 12"x40"
MIDSHIP BULK'D.						56' 38"	12' 3 1/2"	3 1/2"	42'	FACE ANGLES 7x3 1/2"x40L + 10x3 1/2"x60L
WING TANKS.						56' 38"	do.	36'	2 GIRDEES 36"x40"	
Second "						56' 38"	do.	36'	FACE ANGLES 6x3 1/2"x40 OR 10x3 1/2"x40L	
Third "						✓				
Holds .....						✓				
COLLISION "						(in Hold) .....	56' 38"	9' 5 1/2"	3 1/8"	36' 4 GIRDEES 24"x26
AFTER PEAK "						48'-34"	do.	36'	3 GIRDEES.	
STEEL.						Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				
						Dorman Long, South Durham, Consett, Appleby & Farnley, Cargo Fleet, Steel Co. of Scotland, Shinninggrove				
						Has the Steel been tested as required by the Rules? YES.				

SS. EMPIRE MARVELL " SUNDERLAND. NO 33366  
PARTICULARS OF LONGITUDINAL FRAMING.

Double Bottoms K, L or C		Tank Top Longitudinals Bottom		15 x 4 x 4 x 4 1/2 36"	7/8 5 1/4	9 Ribs @ 3 1/8 8-11" spacing 7 Ribs @ 3 1/8 7-2" do. Ribs 4" apart from Sld 75
Spacing of Longitudinals		Amidships At Ends...				
BOTTOM Transverses.						
CENTRE In Bridge TANKS between Decks		Depth and Thickness Face Angles Lugs to Shell*		48 x 46 10 x 3 1/2 x 52 L @ 8-11" 6 x 6 x 46 INTERC L		
In Upper between Decks WING TANKS		Depth and Thickness Face Angles Lugs to Shell*		36 x 44 6 x 3 1/2 x 40 O.A. 6 x 6 x 44 INTERC L		
SIDE TRANSVERSES In Hold		Depth and Thickness Face Angles Lugs to Shell* .. .. Back Bars Brackets		36 x 44 6 x 3 1/2 x 48 O.A. 6 x 6 x 44 INTERC L ✓ ✓		
Spacing of Transverse Frames		State if jogged or liners.				
Longitudinal Beams of K, L or C		Bridge Deck Upper Second Third		27 x 3 1/2 x 35 ✓ ✓ ✓	Spacing.	Transverse Beams
						In Ships. As approved. Plate. Angles. Plate. Angles.
						FACE L 27 x 40 5-3 1/2 x 40 do. ✓ DECK CORR. 3 1/2 x 3 1/2 x 40 ✓

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.

Committee's Minute  
Character assigned

+ 1000  
Carrying petroleum in bulk  
Lloyd's dock. O.C. E.S.D. + Limb 4.43  
Filled front fuel 4.43 H. above 150° F  
S.R.L.  
Mc







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 :- S.S. EMARE AIRMAR SLO. RPT. N° 33310.

Additional stiffening fitted to top of midde post as per attached sketch.  
(sketch will be forwarded tomorrow)

PARTICULARS OF ELECTRIC WELDING (if employed)

Batch coaming welded to deck.

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

D.F. E.S.D.  
Longitudinal Framing

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

including pins  
1st Bower 53 2 27 J.D. 3278 2.10.40  
2nd „ 54 3 14 J.D. 3183 9.8.40  
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 113.3 ft., R.Q.D. ft., Bridge ft., Forecastle 38.25 ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 169015 Signal Letters Extreme Breadth over Belting Over-all Length 503' 9 1/2"  
No. and Material of Decks 1 Steel Deck  
(Circ. 1611) (Circ. 1703)

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	28	322 ✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	17.25	205 ✓
Double bottom, if under Engines only, 55.25	19.87	87 ✓	Deep tank, aft,		
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	31.08	613 ✓
Double bottom, forward,	✓	✓	Other tanks, if fitted,	3.00	164
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)	3.00	180

Order for Special Survey No. 5977

Date 26.3.41

Dates of Surveys held while building

1941. June 26.30. July 3.4.14.17.21.23.24.29.30. Aug. 7.11.12.13.14.15.18.19.21.22.24.27.28. Sep. 1.2.4.8.9.10.11.23.24.29. Oct. 1.2.6.8.9.10.13.14.16.17.23.27.30. Nov. 3.4.7.11.12.13.17.19.20.24.26.27. Dec. 1.2.3.4.5.6.8.9.11.12.15.16.17.18.19.22.23.24.26.27.20. 49. Jan. 1.2.5.6.8.9.10.12.13.15.17.26.30. Feb. 5.10.12.13.16.19. March 11.23.25. April 2.

Total No. of Visits 103