

Rpt. 1  
RECEIVED  
25 JAN 1944

# STEEL STEAMER OR MOTORSHIP.

Received at London Office 21 JAN 1944

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 Que.*

Date of completion of report *20 January 1944* Port of *Sunderland* No. *33876*

Survey held at *Sunderland* Date First Survey *28 August 1942* Last Survey *14 January 1944*

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

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling* State Type of Erections *Prop. Scl.*

TONNAGE under Tonnage Deck ... *8905.54*

Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*

Total *✓*

Tonnage *9912.11*

ster Tonnage *3925.41*

## REGISTERED DIMENSIONS.

FEET  
th *482.7*  
dth *68.3*  
h *36.15*

CLASS *+100 A.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) *475'-0"*

Breadth (greatest moulded) *B 68'-0"*

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"*

1st Longitudinal Number (L × D) *✓*

2nd Numeral L × (B + D) *✓*

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 *27'-11<sup>3</sup>/<sub>4</sub>"*

Built at *Sunderland*

Launched *22.4.43* Yard No. *749*

Builders *Sir James Laing & Son Ltd*

Owners *Ministry of War Transport*

Managers *Anglo-Saxon Petroleum Co. Ltd*  
(Where necessary to be entered in Reg. Book)

Residence *✓*

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.....	<i>✓</i>		Bracket Floors, Frame .....	<i>✓</i>	
"    "    from $\frac{1}{2}$ length amidships to Collision bulkhead.....	<i>✓</i>		"    "    Reversed Frame.....	<i>✓</i>	
"    "    in peaks.....	<i>AP 248 25</i> <i>FP 24</i>	<i>✓</i>	"    "    Vertical Struts .....	<i>✓</i>	
SIDE FRAMING. <i>fitted longitudinally</i>			Centre Girder, depth and thickness amidships.....	<i>50 8.46</i>	<i>✓</i>
Frame Amidships, Angle, [ or [ <i>See Rpt</i>	<i>1"</i>	<i>✓</i>	"    "    top Angles.....	<i>3<math>\frac{1}{2}</math> × 3<math>\frac{1}{2}</math> × 7/16</i>	<i>✓</i>
"    "    Extends up to.....	<i>✓</i>		"    "    bottom Angle.....	<i>6 × 6 × 2</i>	<i>✓</i>
Reversed Frame Amidships, Angle .....	<i>✓</i>		Side Girders, No. each side and thickness.....	<i>20.75</i>	<i>app<sup>d</sup> .60</i>
"    "    Extends up to .....	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness .....	<i>✓</i>	
Depth of Framing Girder.....	<i>✓</i>		"    "    Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....	<i>✓</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [ .....	<i>✓</i>		"    "    Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area .....	<i>✓</i>	
"    "    Second 'tween Decks, Angle, [ or [ .....	<i>✓</i>		"    "    Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	<i>✓</i>	
"    "    Third .....	<i>✓</i>		"    "    Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....	<i>✓</i>	
"    "    from $\frac{1}{2}$ len. for'd. to 15% len. from Stem.....	<i>AP 9 × 3<math>\frac{1}{2}</math> × 7/16</i> <i>FP 9 × 3<math>\frac{1}{2}</math> × 3/8</i>	<i>✓</i>	Tank Side Brackets, height above base line at toe of Frame and thickness.....	<i>✓</i>	
"    "    in Peaks, Angle or [ .....	<i>✓</i>		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	<i>✓</i>		<del>Breadth and</del> thickness of Middle Line Strake.....	<i>52 8.46</i>	<i>✓</i>
State if Frame Joggled.....	<i>✓</i>		Thickness of remainder in Holds .....	<i>✓</i>	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	<i>YES</i>	<i>✓</i>	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?.....	<i>✓</i>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	<i>YES</i>	<i>✓</i>	BEAMS. <i>fitted longitudinally</i>		
SINGLE BOTTOM. in Centre Tanks			Uppermost Continuous Deck, amidships in Wells, Angle, [ or [ .....	<i>✓</i>	
Floors, Depth and thickness at mid-line in Holds.....	<i>✓</i>		"    "    in way of Bridge, Angle, [ or [ .....	<i>✓</i>	
Height of Brackets at side above base line at toe of frame.....	<i>✓</i>		Spacing .....	<i>✓</i>	
Middle Line Keelson, on Floors, Angles, <i>E or B</i> .....	<i>6 × 3<math>\frac{1}{2}</math> × 40</i>	<i>✓</i>	Second Deck, amidships, Angle, [ or [ .....	<i>✓</i>	
"    "    Through Plate or Inter-costal Plate .....	<i>42</i>	<i>✓</i>	Spacing .....	<i>✓</i>	
"    "    Foundation Plate on Floors .....	<i>✓</i>		Third Deck, amidships, Angle, [ or [ .....	<i>✓</i>	
"    "    Flat Plate Keel Angle.....	<i>6 × 6 × 60</i>	<i>✓</i>	Spacing.....	<i>✓</i>	
Side Keelsons, No. each side.....	<i>✓</i>		Fourth Deck, amidships, Angle, [ or [ .....	<i>✓</i>	
"    "    thickness of Intercostal Plate.....	<i>✓</i>		Spacing.....	<i>✓</i>	
"    "    Angles .....	<i>✓</i>		Poop Deck, Angle, [ or [ .....	<i>7 × 3 × 3/8</i>	<i>as app<sup>d</sup></i>
DOUBLE BOTTOM. <i>Aft</i>			Spacing.....	<i>every</i>	
Solid Floors, thickness and spacing.....	<i>44 every</i>	<i>✓</i>	Bridge Deck, Angle, [ or [ .....	<i>8 × 3<math>\frac{1}{2}</math> × 40</i>	<i>✓</i>
"    "    Are Frame and Reversed Frame joggled? .....	<i>YES</i>	<i>✓</i>	Spacing.....	<i>✓</i>	
Bracket Floors, breadth and thickness at middle line .....	<i>✓</i>		Forecastle Deck, Angle, [ or [ .....	<i>8 × 3<math>\frac{1}{2}</math> × 40</i>	<i>✓</i>
"    "    breadth and thickness at margin plate.....	<i>✓</i>		Spacing.....	<i>every</i>	

(MADE IN ENGLAND.)

003479-003486-0138 1/3



## 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 .....	✓		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...	✓	
" " " " " "	✓		If Sheathed, material and thickness.....	✓	
2 Long 1 Centre Line Bulkheads. Stiffeners and Spacing ..... L.e. 30"	9x3½x.46 to 6x3x.34	app'd 9½x3½x.40	Third Deck. Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of .....	.50 to .36.	✓	If Plated, state thickness .....	✓	
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	87x.82	✓	Fourth Deck. Stringer Plate, breadth and thickness.....	✓	
" " " " in way of Bridge	✓		If Plated, state thickness.....	✓	
" Angle in Wells .....	8x8x.82	app'd 7x7x.82	Poop Deck. Stringer Plate, breadth and thickness.....	39x.38	✓
Thickness of Plating abreast Deck openings } in way of Wells .....	.76 & .66	✓	Plating, Sheathing, material and thickness ...	.28 & .24	✓
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Bridge Deck. Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating within line of openings...	✓		Plating, Sheathing, material and thickness ...	✓	
If Sheathed, material and thickness.....	✓		Forecastle Deck. Stringer Plate, breadth and thickness.....	36x.41	✓
Second Deck. Stringer Plate, breadth and thickness in Wells	✓		Plating, Sheathing, material and thickness...	.27	✓

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	No.	SINGLE OR DOUBLE.	RIVETS. Diam.	Spacing cr. to cr.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.								Inches.	Inches.	
	Inches.	Inches.	Inches.	Inches.								Inches.	Inches.	
Flat Plate Keel.....	54	1.00	1.00	.86			D	1 1/8	H 1/2	3		1 1/8	H 1/2	Double STRAPS.
„ Dblg. (if any)		✓												
Bottom Plating, No. of Strakes A, B, C, D } ✓		.76	.87	.52			D	1	H	5		1	H 1/2	L
Bilge Plating, No. of Strakes E } ✓		.76	✓	✓			D	1	H	5		1	H 1/2	L
Side Plating, No. of Strakes F, G, H } ✓		.64	.48	.48			D	7/8	3 1/2	3		7/8	3 1/8	L
Upper Deck, Sheer- strake in Wells } ✓	72 1/2	1.00	.46	.46			D	1	H	welded.				
Upper Deck, Sheer- strake in Bridge } ✓		✓												
Strake below Sheer- strake in Wells } ✓		.77	.46	.46			D	1 1/8	H 1/2	4		1	H	L
Strake below Sheer- strake in Bridge } ✓		✓												
Poop Side Plating.....		✓	✓	.42			S	7/8	3 1/2	2		3/4	2 5/8	L
Bridge Side Plating.....		✓	✓	✓										
Forecastle Side Plating		✓	.46	✓			S	7/8	3 1/2	2		3/4	2 5/8	L

## WATERTIGHT BULKHEADS.

WATERTIGHT BULKHEADS.						FORGINGS AND CASTINGS.				
Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.		Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
Extending to Upper Deck (Sec. 3 c) 13										
" Deck next below ✓										
As per Rule ✓										
						KEEL, Bar .....				
						STEM .....				
						STERN FRAME { Propeller Post .....				
						" { Rudder .....				
						Speed of Vessel .....				
						RUDDER—Type .....				
						A × D.....				
						Diam. of head .....				
						Mainpiece at top pintle .....				
						" heel ...				
						how constructed .....				
						double or single plate .....				
						coupling, vertical or .....				
						horizontal .....				
						Open Hearth				
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)						South Durham, Bonsett, Appleby & Ladingham, Cargo Fleet, Dorman Long.				
STEEL.						Lloyd's Register Foundation				
Has the Steel been tested as required by the Rules? YES										



## PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.		RIVETS IN BRACKETS TO BULKHEADS.			
		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 Transverses and Bulkheads.		Number. Diameter.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	
Framing of L, L or C																			
Frames in Bridge 'tween Decks																			
Frames from Uppermost Continuous Deck	No. 1	7	3 1/2	40											1 6'	throughout			
	" 2	do.													7/8	5 1/4	do.		
	" 3	do.													do.	do.			
	" 4	7	3 1/2	43											do.	do.			
	" 5	8	3 1/2	36											do.	do.			
	" 6	do.													do.	8 Rvs @ 4			
	" 7	8	3 1/2	44											do.	do.			
	" 8	9	3 1/2	37											do.	do.			
	" 9	do.													do.	do.			
	" 10	9	3 1/2	41											do.	8 Rvs @ 3 1/8			
	" 11	10	3 1/2	40											do.	do.			
	" 12	11	3 1/2	43											do.	do.			
	" 13	12	3 1/2	3 1/2	42	do.									do.	do.			
	" 14																		
	" 15																		
	" 16																		
Spacing of Longitudinal Frames	Amidships	30	as app'd																
	At Ends																		
Double Bottoms L, L or C	Tank Top Longitudinals														7/8	5 1/4	9 Rvs 3 1/8 @ 8-11"		
	Bottom	15	4	4	41	do.									7	do.	@ 7-2"		
		36															Rvs. 4" fwd. Bld. 75		
Spacing of Longitudinals	Amidships																		
	At Ends																		
Bottom Transverses.																			
Centre In Bridge 'tween Decks	Depth and Thickness	48	4	46															
	Face Angles	9	3 1/2	46 @ 7-2"															
	Lugs to Shell*	welded.																	
Wing Tanks In Upper 'tween Decks.	Depth and Thickness	36	4	44															
	Face Angles	6	3 1/2	40 OA															
	Lugs to Shell*	6	6	44 Inter															
Side Transverses In Hold.	Depth and Thickness	36	4	44															
	Face Angles	6	3 1/2	48 OA															
	Lugs to Shell*	6	6	44 Inter															
	" " Back Bars																		
	Brackets																		
Spacing of Transverse Frames		7-2"	8-11"																
	* State if joggled or liners.																		
Longitudinal Beams of L, L or C	Bridge Deck																		
	Upper	8	3 1/2	35											36		27	do.	
	Second																		
	Third																		

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 ALLIANCE SLD. RPT. No 33738

W	FEED WATER	C.	L.H.B.	C.	O.F. or W.B.	C.
E		D	OIL	D		B.
L	29.375'	22 23	7.66'	26 27	33.31'	40
		2.56'		2.56'		

Butts of side plating only, excludg sheerstrake  
2 strake below fwd of fore peak B.M. etc welded  
No notation for this to be inserted in R.B.

PARTICULARS OF ELECTRIC WELDING (if employed)

Butts of forward shell, sheerstrake butts welded, shell plating welded to stem bar, long hullheads welded to shell & deck, transverse hullheads in center tank welded to shell, transverse in center tank welded to shell, hullhead girders welded to hullheads, tank tops and stringers at forward & aft ends welded to shell, upper deck stringer plating inside poop & fore welded to shell, midship deckhouse welded to deck, small hatch & ventilator coaming welded to deck.

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

Butts of sheerstrake, forward shell plating, electrically welded.  
D.F.

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

including pins  
1st Bower

55	1	7	A.E.G.	4688	29.12.42
55	1	7	A.E.G.	4686	29.12.42

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 103.8 ft., R.Q.D. ft., Bridge ft., Forecastle 39.5 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 180053 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 503'-9 1/2" (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,	23.5	135
Double bottom, under Engines and Boilers,			After peak tank,	14.5	130
Double bottom, if under Engines only,	75.5	136	Deep tank, aft,		
Double bottom, if under Boilers only,	see sketch.		Deep tank, forward,	31.08	445
Double bottom, forward,			Other tanks, if fitted,	3.00	164
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch. Pft. do	3.00	184

Order for Special Survey No. 6045

Date 30.7.42

Dates of Surveys held while building

1942. Aug. 28, Oct. 28, 30, Nov. 2, 4, 9, 26, 30, Dec. 1, 8, 10, 15, 16, 18, 22, 1943. Jan. 4, 6, 7, 8, 13, 15, 18, 20, 21, 22, 29, Feb. 1, 3, 4, 8, 9, 12, 15, Mch. 3, 4, 8, 13, 16, 19, 22, 23, 24, 25, 26, 29, 30, 31, Apr. 1, 2, 5, 6, 7, 8, 9, 13, 14, 16, 22, 23, 24, May. 4, 7, 11, 13, 18, 20, 25, 28, 31, June 2, 23, Sep. 2, Oct. 25, 30, Nov. 4, 20, 27, Dec. 4, 11, 21, 31, 1944. Jan. 5, 8, 14.

Total No. of Visits 84