

State if Report is sent on the Machinery of the Vessel..... Yes

No. 63091

Last Survey 11th November 1940

EMPIRE VOICE

State Type of Erections *Roof, Bridge, & Tolls*

Built at Glasgow.

FEEET.

Launched 3rd Sept 1940. Yard No 678

Breadth (*greatest moulded*)

Builders Barclay Curle & Co. Ltd.

Depth, at middle of length from top of keel to top

Owners Ministry of Shipping

1st Longitudinal Number (L x D).....= 14490

Managers *British India Ship Nav Co Ltd.*
(Where necessary to be entered in Reg. Book.)

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

Residence as recorded

Proportions—*Depth to Length*—Uppermost con-

Port of Registry *Glasgow*

Do. Long Bridge to top)

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

Draught Moulded

Yes.

	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 $\frac{3}{8}$ length amidships to } Collision bulkhead.....}	27 ✓		" " Reversed Frame.....	✓	
" " in peaks.....	24 ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 x 53 ✓	
Frame Amidships, Angle, E or C	12 x 3½ x .45 ✓		" " top Angles	3½ x 3½ x .47 ✓	
" " Extends up to	main deck ✓		" " bottom Angles	4 x 4 x .53 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	1 @ .37 ✓	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	39 x .53 ✓	
Depth of Framing Girder	12" ✓		" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween	8 x 3½ x .39 ✓		Bracket abaft ¼ len. from	6½ x 6½ x .55 ✓	6 x 6 x .44
Decks, Angle, E or C	8 x 3½ x .49 in way of bridge ✓ + 5 x 3½ x .38 angle ✓		stem T. Bar		
" " Second 'tween Decks, Angle, C or E	✓		" " Vertical Angle to Tank side	6½ x 6½ x .55 ✓	for 130 - 142
" " Third " " " "	✓		Bracket from forward ¼ len.		
" " from ¼ len. for'd. to 15% len. from	12 x 3½ x .54 ✓		from stem to Panting Area		
Stem			Gussets, spacing and scantling	every frame ✓	
" " in Peaks, Angle or C	8 x 3½ x .49 ✓		abaft ¼ len. from stem.....	.41 .51 @ .5 ✓	
Diameter and Spacing of Rivets through			" " Gussets, spacing and scantling	every frame ✓	
Frame and Shell Plating amid-			from forward ¼ len. from stem	.41 flat tank ✓	
ships	7/8 - 5¾ ✓		to Panting Area.....	ford 7 ft 142.	
State if Frame Joggled	Yes. ✓		Tank Side Brackets, height above base line	69½ x .44 ✓	
Are the scantlings and arrangements in the			at toe of Frame and thickness)		
Panting Area in accordance with the Rules			INNER BOTTOM PLATING.		
and/or as approved?	Yes. ✓		Breadth and thickness of Middle Line Strake ..	69 x .51 ✓	69 x .49 ✓
Are the scantlings and arrangements in way			Thickness of remainder in Holds43 ✓	
of the Bottom Forward in accordance with			Are Rule requirements complied with regarding	.51 under staid ways ✓	
the Rules and/or as approved?	Yes. ✓		increases of scantlings in way of double		
			bottom in E. & B. space and framing in	Yes. ✓	
			Bunkers and Boiler Room?		
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in			Uppermost Continuous Deck, amidships	9 x 3½ x .42 - .36 ✓	
Holds	✓		in Wells, Angle, E or C	10 x 3½ x .40 ✓	
Height of Brackets at side above			" " in way of Bridge, Angle,	8 x 3 x .48 as approved ✓	
base line at toe of frame	✓		E or C		
Middle Line Keelson, on Floors, Angles,			Spacing	30" ✓	
C or E	✓			11 x 3½ x .43 ✓	
" " " Through Plate or			Second Deck, amidships, Angle, E or C	9 x 3 x .38 as approved ✓	
Intercostal Plate...	✓		Spacing.....	30" ✓	
" " " Foundation Plate on			Third Deck, amidships, Angle, C or E	✓	
Floors	✓		Spacing.....	✓	
" " " Flat Plate Keel Angles			Fourth Deck, amidships, Angle, C or E	✓	
	✓		Spacing.....	✓	
Side Keelsons, No. each side	✓		Poop Deck, Angle, E or C	7 x 3 x .33 ✓	
" " thickness of Intercostal Plate...	✓		Spacing.....	6 x 3 x .37 ✓	
" " Angles	✓			30" x 24" ✓	
DOUBLE BOTTOM.			Bridge Deck, Angle, E or C	8 x 3 x .41 - .39 ✓	
Solid Floors, thickness and spacing41 @ 30" ✓		Spacing	30" ✓	
" " Are Frame and Reversed Frame			Forecastle Deck, Angle, E or C	8 x 3½ x .36 ✓	
joggled?	Yes ✓		Spacing	8 x 3 x .33 ✓	
Bracket Floors, breadth and thickness at				7 x 3 x .33 ✓	
middle line	✓		Spacing	27" x 24" ✓	
" " 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..... <i>Two</i>									
" in 'tween Decks, Size and Spacing.....									
" " " " " "									
" in Holds " "									
" " " " " "									
Centre Line Bulkhead.									
Stiffeners and Spacing.....									
Plating, thickness of									
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells									
" " " " in way of Bridge									
" Angle in Wells									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating within line of openings...									
If Sheathed, material and thickness									
Second Deck.									
Stringer Plate, breadth and thickness in Wells...									
Stringer Plate, breadth and thickness in way of Bridge									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating within line of openings...									
If Sheathed, material and thickness									
Third Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness.....									
Fourth Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness									
Poop Deck.									
Stringer Plate, breadth and thickness									
Plating, Sheathing, material and thickness ...									
Bridge Deck.									
Stringer Plate, breadth and thickness.....									
Plating, Sheathing, material and thickness ...									
Forecastle Deck.									
Stringer Plate, breadth and thickness.....									
Plating, Sheathing, material and thickness ...									

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if Joggled?		RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.	STRAPPED OR LAPPED.	
	Inches.	Inches.	Inches.	Inches.			Diam. Spacing or to or.		Diam. Spacing or to or.	Inches.	Inches.
FLAT PLATE KEEL	5 1/2	.83	.77	.77	.73 d ends approved	Double	1 3/4	Four	1 1/4	4	Capped
" DELG. (if any)											
BOTTOM PLATING, No. of Strakes64	.49	.52		Double	7/8 3/3	Four	7/8 3/2	Capped	
BILGE PLATING, No. of Strakes64	.49	.52		"	"	"	"	"	"
SIDE PLATING, No. of Strakes63	.46	.46		"	"	Three	" 3/8	"	"
UPPER DECK, Sheer-strake in Wells.....	78	.78	.46	.46		"	1 1/8 4 1/4	Five	1 1/8 4 1/2	"	"
UPPER DECK, Sheer-strake in Bridge ...	78	.63	"	"		"	1 3/4	Four	1 1/4	"	"
STRAKE BELOW Sheer-strake in Wells.....	76	.69	.46	.46		"	7/8 3/3	Three	7/8 3/8	"	"
STRAKE BELOW Sheer-strake in Bridge ...	76	.63	"	"		"	"	Three	" 3/8	"	"
POOP SIDE PLATING40		1 plate in depth	"	one	3/4 2 5/8	"	"
BRIDGE SIDE PLATING57				do	"	four	7/8 3 1/2	"	"
FORECASTLE SIDE PLATING			.42			Single	3/4 3	one	3/4 2 5/8	"	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<i>Seven</i>
Extending to Upper Deck (Sec. 3 c)	<i>Seven</i>
" Deck next below	<i>"</i>
As per Rule	<i>approved.</i>

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	<i>Flat plate</i>	<i>Keel</i>		
STEM	<i>Mild Steel Rolled Bar</i>	<i>10 x 2 1/8</i>		
STERN FRAME { Propeller Post	<i>Cast</i>	<i>as</i>	<i>Steel Coy &</i>	
{ Rudder	<i>Steel</i>	<i>approved</i>	<i>Scotland Ltd.</i>	
Speed of Vessel	<i>12 knots</i>			
RUDDER—Type	<i>ordinary</i>			
" A x D	<i>631</i>			
" Diam. of head	<i>Forging</i>	<i>12"</i>		
" Mainpiece at top pintle		<i>11 1/2"</i>	<i>Denny's Town</i>	
" " heel ...		<i>8 3/4"</i>	<i>Forgs Co Ltd</i>	
" how constructed ...	<i>Recess Shunk on</i>	<i>& Keyed to Post</i>		
" double or single plate	<i>Single</i>	<i>1.17</i>		
" coupling, vertical or horizontal	<i>Horizontal</i>			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks <i>no 113</i>	<i>27</i>	<i>5 x 3 x 3 1/4 x 33</i>	<i>29 1/2</i>		
" " Second					
" " Third					
" " Holds	<i>43</i>	<i>29 x 3 1/2 x 49</i>	<i>29 1/2</i>		
COLLISION (in Hold)	<i>53</i>	<i>8 x 3 x 40 1/2</i>	<i>24 1/2</i>	<i>4 Semi Box</i>	
AFTER PEAK	<i>50</i>	<i>6 x 3 x 30</i>	<i>20</i>	<i>Beams as approved</i>	
		<i>10 x 3 1/2 x 46</i>	<i>20</i>	<i>1 Semi box beam</i>	
		<i>6 1/2 x 3 x 40</i>	<i>20</i>	<i>Tunnel Top as approved</i>	

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	<i>open Hearth</i>
	<i>Colvilles Ltd - Steel Coy & Scotland - Consell Iron Co</i>	
	Has the Steel been tested as required by the Rules?	<i>Yes</i>

NOV 28 1940

EQUIPMENT No 40342.57

LETTER at

ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
39725	1st Bower ...	Cwts. qrs. lbs. 68 1 7	Cwts. qrs. lbs. Stockless	Tons. cwt. qrs. lbs. 52 18 3 0	Cwts. 68	Ryans Stockless	not Stated	Sunderland 29.4.40 Norman.
39726	2nd " ...	68 0 7	"	52 15 2 14	68	"	"	"
	3rd " ...	not supplied (modified equipment for duration of Hostilities)						
	Collective weight.				194 1/2			
99143	Stream	19 1 0	5 0 7	20 1 3 14	19	Rodgers F.W. Iron	J. Taylor & Sons	hullston 3.7.40 Ref.

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.
	Length. Diam.	Statutory. Breaking.	Supplied. Per Rule.	Length. Diam.					Length. Cir.	Tons.	Length. Cir.
112623	225" 2	100 8/10 141 1/10	496. 1. 23	270 2	5/16 Link Tayco	J. Taylor & Sons	hullston 8.8.40 Ref.	TOWLINE...	120 4 3/4	64 1/10	120 4 3/4
	45			2 1/16	Link for weight iron			HAWSERS & WARPS	2090 2 3/4	15 1/10	2090 2 3/4
	modified equipment for duration of Hostilities								2090 8"	Hemp	2090 8"
Iron Stream Chain or Steel Wire	90 5"	52 8/10		90 5"							

Steering Gear, Type (Power or hand) *Steam Hydraulics by Hasting* *Cyls 6x6.* ✓ **Alternative Means of Steering** *Blocks & Tackle* ✓

Steering Chains (Size and Test) ✓ **Windlass** *Steam by Clarke Chapman* *Cyls 11" x 14"* ✓ *2@27' 45 persons each* ✓ *Boats 2@18' 16* ✓

Ceiling in Holds, thickness and material *Tank top plating under hatch* ✓ *enclosed in head of ceiling* ✓ **Cargo Battens**, thickness, material and spacing *no Cargo Battens but provision made for fitting same.* ✓

Cargo Hatchways.—(Upper Deck) *Steel plates & angles.* ✓ **Thickness of Hatches** *2 3/8" with 1/8" thick steel.* ✓

Size of Hatchways No. 1 (Fwd.) *27' x 22'* ✓ No. 2 *32' 6" x 18'* ✓ No. 3 *12' 3" x 18'* ✓ No. 4 *32' 6" x 22'* ✓ No. 5 *32' 6" x 22'* ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters *4* ✓ *5* ✓ *5* ✓ *5* ✓

22' see letter 2 10.12.40
Builder's Signature *H. J. Cully*

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 vessel has been built in accordance with the approved plans, the Secretary's letters of various dates in general conformity with the approved plans & the Ministry of Shipping specifications.

The workmanship & materials are good - The double bottom Tanks & Peak Tanks have been tested with satisfactory results. ✓

The keelboard has been verified & the markings cut in on vessels sides.

The windlass, Steering Gear & Emergency Steering Gear have been tried with satisfactory results. ✓

W.T Buckheads Store-listed & 67 Doors & Ridge sections tried with satisfactory results. ✓ *How best of weather etc carried out see letter 10.12.40*

The amount of Entry Fee £ 10 : 0 : 0

Fees applied for,

26 NOV 1940

(Special notations, where part of class, to be stated.)

Special Survey Fee.... £ 370 : 14 : 0

Supervision for H.O.S. + 25%: 92 13 6

Travelling Expenses, if any £

Freeboard 17 0 0

Received by me,

4-12-1940

I am of opinion the Vessel should be Classed + 100 A.1

"Cargo Battens not fitted"

Subject to replacement of the permitted deficiency of equipment at the end of the war

Signature

J. R. McShane

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey *yes* ✓Certificate to be sent to *Glasgow* Date of issue *11/12/40*Committee's Minute *GLASGOW 26 NOV 1940*Character assigned *1- 100 A1**with freeboard**11.40**-1- Linc 11.40**Note Equ & Cgo. blue.*

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Lloyd's Register Foundation

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.)

Approved plans in London forwarded with I.P. Report on S.S. EMPIRE LIGHT
Glasgow Report No 62783.

Midship Section as built forwarded in advance.

2 Castles & 1 Tug's Cert attached.

SISTER VESSEL. } "EMPIRE LIGHT"
GLASGOW RPT No 62783

SIMILAR VESSEL. } ITRIA
GLASGOW RPT No 62382.

PARTICULARS OF ELECTRIC WELDING (if employed)

Minor items

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

With Keelboard - 2 dks -

Cruiser Stern - Lloyd's A.C.P. - unless - Direction Finder.

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

1st Bower	42.2.21	J.D.	2722	5.4.40
2nd "	43.2.14	J.D.	2493	19.12.39
3rd "	Not supplied			

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 37.5 ft., R.Q.D. — ft., Bridge 136 ft., Forecastle 34.5 ft.

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

Official No. 165990

Signal Letters G.N.F.L.

Extreme Breadth over Belting (Circ. 1611)

Over-all Length 442.50 (Circ. 1703)

No. and Material of Decks 2 dks (steel)

Parts of Bottom of Vessel coated with cement or approved composition

Cement in Peak Tanks - Cement pellets in DB Tanks
Bitumastic in Bilges.

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,	137.5 ✓	383.0 ✓	Fore peak tank,	21 ✓	139. ✓
Double bottom, under Engines and Boilers,	65.0 ✓	327.0 ✓	After peak tank,	22 ✓	118. ✓
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓	
Double bottom, forward,	167.5 ✓	650.0 ✓	Other tanks, if fitted,	✓	
Total length (if continuous) and Capacity	370.0	1360.0	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 6474

Date 3.10.39

Dates of Surveys
held while building

1940 Feb. 15.20.26 Mar. 13.14.26.29 Apr. 2.3.5.9.11.15.16.18.22.24.30 May 6.13.15
20.22.29 June 4.10.12.18.26.28 July 1.4.8.12.15.17.18.22.25.29.30.31 Aug 2.5.8.12.14
15.20.26 Sep. 3.9.17.24 Oct. 9.18.22.30 Nov. 4.10.11

Total No. of Visits

61