

Rpt. 1

DISCLOSED

SECTION

No. 821B

N/N OCEAN UNITY. STEEL STEAMER OR MOTORSHIP.

DISCLOSED 20 JUL 1942

Received at London Office

SECTION

No. 821B

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 *13th July 1942* Port of *Sunderland* No. *33439*

Survey held at *Sunderland* Date First Survey *24 Oct 1941* Last Survey *13th July 1942*

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw* *SS "EMPIRE SOUTHEY"* Machinery *amidships*

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Intermediate between FS & CSS* State Type of Erections *Yails on upper deck*

Tonnage under Deck ...	6572.74	CLASS <i>100 A.I.</i>	State if with freeboard as condition of Class <i>yes</i>	Built at <i>Sunderland</i>
Space or spaces Tonnage Dk. Upper Dk.		Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	L <i>425.0</i>	Launched <i>15th May 1942</i> Yard No. <i>471</i>
		Breadth (greatest moulded)	B <i>56.0</i>	Builders <i>Short Brothers, Sunderland</i>
		Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)	D <i>37.67</i>	Owners <i>Ministry of War Transport</i>
Tonnage	<i>7040.65</i>	1st Longitudinal Number (L x D)	<i>15193.75</i>	Managers <i>W. Runciman & Co Ltd</i>
Net Tonnage	<i>4954.12</i>	2nd Numeral L x (B + D)	<i>38993.75</i>	(Where necessary to be entered in Reg. Book)
REGISTERED DIMENSIONS.		Framing Depth "d," at middle of length. See Sec. 3 (1d)	<i>23.3</i>	Residence <i>Newcastle-on-Tyne</i>
in	<i>431.0</i>	Proportions—Depth to Length—Uppermost continuous deck to top of keel	<i>11.27</i>	Port of Registry <i>Sunderland</i>
with	<i>56.3</i>	Do. Long Bridge to top of keel	<i>26.75/8</i>	If surveyed while building, afloat, or in dry dock <i>while building</i>
	<i>35.2</i>	Draught Moulded		

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>31</i>		Bracket Floors, Frame	<i>✓</i>	
" " from $\frac{3}{8}$ length amidships to Collision bulkhead.....	<i>27</i>		" " Reversed Frame.....	<i>✓</i>	
" " in peaks	<i>24</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING. <i>trial</i>			Centre Girder, depth and thickness amidships	<i>43 1/4 x .54</i>	
Frame Amidships, <i>12 x 3 1/2 x 3 1/2 x 32.9 lbs</i>			" " top Angles	<i>3 1/2 x 3 1/2 x .48</i>	
" " Extends up to <i>2nd Deck, Upper in Alternates & HE beams</i>			" " bottom Angles.....	<i>4 x 4 x .54</i>	
<i>1/40 TUNNEL RECESS 10 x 3 1/2 x .48 L</i>			Side Girders, No. each side and thickness <i>ONE</i>	<i>6 x 3 1/2 x .42 (TO SHELL)</i>	
Reversed Frame Amidships, Angle <i>✓</i>			Margin Plate depth (excl. of flange) and thickness	<i>36 x .54</i>	
" " Extends up to	<i>✓</i>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	<i>6 x 6 x .44</i>	
Depth of Framing Girder.....	<i>12</i>		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	<i>6 x 6 x .44</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, <i>8 x 3 1/2 x 35L</i>			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	<i>14 x .42 CONTINUOUS FL 2 1/2</i>	
" " Second 'tween Decks, Angle, <i>8 x 3 1/2 x 36.0 A 98</i>			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	<i>17 x .42 CONTINUOUS FL 2 1/2</i>	
" " Third	<i>✓</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>95 x .44</i>	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem <i>AT PANTING AREA 12 x 3 1/2 x 32.9 lbs</i>			INNER BOTTOM PLATING.		
" " in Peaks, <i>8 x 3 1/2 x 35</i>			Breadth and thickness of Middle Line Strake...	<i>7 1/4 x .50</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships <i>7/8 @ 6 1/2 8 3/32</i>			Thickness of remainder in Holds	<i>.44, .52 1/w/o HATCHES</i>	
State if Frame Joggled.....	<i>yes</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>yes</i>	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>yes</i>		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>yes</i>		Uppermost Continuous Deck, amidships <i>8 x 3 1/2 x .42</i>		
ANGLE BOTTOM.			" " in way of Bridge, Angle, <i>✓</i>		
Floors, Depth and thickness at mid-line in Holds.....	<i>✓</i>		Spacing	<i>every frame</i>	
Height of Brackets at side above base line at toe of frame.....	<i>✓</i>		Second Deck, amidships, Angle, <i>9 x 3 1/2 x .39</i>		
Middle Line Keelson, on Floors, Angles, <i>✓</i>			Spacing	<i>every frame</i>	
" " Through Plate or Inter-costal Plate	<i>✓</i>		Third Deck, amidships, Angle, <i>✓</i>		
" " Foundation Plate on Floors	<i>✓</i>		Spacing.....	<i>✓</i>	
" " Flat Plate Keel Angles <i>✓</i>			Fourth Deck, amidships, Angle, <i>✓</i>		
Side Keelsons, No. each side.....	<i>✓</i>		Spacing.....	<i>✓</i>	
" " thickness of Inter-costal Plate... <i>✓</i>			Poop Deck, Angle, <i>✓</i>		
" " Angles	<i>✓</i>		Spacing.....	<i>✓</i>	
DOUBLE BOTTOM.			Bridge Deck, Angle, <i>✓</i>		
Solid Floors, thickness and spacing <i>.42 every frame</i>			Spacing.....	<i>✓</i>	
" " Are Frame and Reversed Frame joggled? <i>yes</i>			Forecastle Deck, Angle, <i>6 x 3 x .44 - 9 x 3 1/2 x .42</i>		
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Spacing.....	<i>every frame</i>	
" " breadth and thickness at margin plate.....	<i>✓</i>				

(MADE IN ENGLAND.)

011610-011618-0111 1/2

PILLARS AND DECKS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows	one ✓				
„ in 'tween Decks, Size and Spacing	✓				
„ „ „ „ „	✓				
„ in Holds „ „ „	✓				
„ „ „ „ „	✓				
Centre Line Bulkhead.					
Stiffeners and Spacing	TWEEN DECKS { 5x3x32 OA and 7x3x3 1/2 L @ 2 ft. spaces. ✓ HOLDS { 12x3 1/2 x 3 1/2 x 30 9 lbs C ✓ 6 12x3 1/2 x 1/6 L @ 2 ft. spaces. ✓				
Plating, thickness of	TWEEN DECKS .26 ✓ HOLDS .30 ✓				
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	65 5/8 x .65 ✓				
„ „ „ „ in way of Bridge	✓				
„ Angle in Wells	6 x 6 x .60 ✓				
Thickness of Plating abreast Deck openings } in way of Wells60 & .55 ✓				
Thickness of Plating abreast Deck openings } in way of Bridge	✓				
Thickness of Plating within line of openings...	.40 ✓				
If Sheathed, material and thickness	✓				
Second Deck.					
Stringer Plate, breadth and thickness in Wells	82 3/4 x .38 ✓				
Stringer Plate, breadth and thickness in way of Bridge	✓				
Thickness of Plating abreast Deck openings } in way of Bridge	✓				
Thickness of Plating within line of openings...	.34 ✓				
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	35 x .36 ✓				
Plating, Sheathing, material and thickness...	.32 .50 under w/less ✓				

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? NO.	SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.	
Flat Plate Keel.....	54	.80	.70	.73		DOUBLE	7/8	3 3/4	3R	7/8	4	ALTERNATE BUTTS WELDED DOUBLE STRAPS	
„ Dblg. (if any)	✓												
Bottom Plating, No. of Strakes A, C, D.....		.60	.70	.52		do	7/8	3 3/4	4R	7/8	3 1/2	AB&C LAPPED	
Bilge Plating, No. of Strakes E.....		.64	.57	.52		do	7/8	3 3/4	4R	7/8	3 1/2	SINGLE STRAPS	
Side Plating, No. of Strakes F, G.....		.60	.45	.45		do	7/8	3 3/4	3R	7/8	3 5/32	LAPPED	
Upper Deck, Sheer- strake in Wells.....	77 1/2	.73	.60	.46		do	7/8	3 3/4	4R	1	4	LAPPED	
Upper Deck, Sheer- strake in Bridge	✓												
Strake below Sheer- strake in Wells.....	83 1/4	.65	.46	.46		do	7/8	3 3/4	3R	7/8	3 5/32	LAPPED	
Strake below Sheer- strake in Bridge	✓												
Poop Side Plating.....	✓												
Bridge Side Plating.....	✓												
Forecastle Side Plating			.40			SINGLE	3/4	3	1R	3/4	2 5/8	LAPPED	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		7BH (Caul to W. dk, 6 to 2nd dk.)	6 divisional W.T.
Extending to Upper Deck (Sec. 3 c)	7	No openings in W. dk B.H. bulk coll. openings in B.H. closed by steel plates with hook bolts 12" apart or specially approved.	B.H. in fore and aft
„ Deck next below	7	Openings in other fore and aft B.H. closed by through bolts 5 1/2" apart	
As per Rule	7		

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
STEM		Relied M.S. 10"x2½"	✓	
STERN FRAME {	Propeller Post {	M.S. Fabricated as per Dorman		
	Rudder " {	approved plan	Long.	
Speed of Vessel		11 Knots		
RUDDER—Type		Ordinary		
" A × D		357		
" Diam. of head		10"		
" Mainpiece at top pintle		10"		
" " heel		7½"		
" how constructed		Fabricated		
" double or single plate		Double		
" coupling, vertical or		Vertical		
" horizontal				

				Plating Thickness.	STIFFENERS.			
					VERTICAL.		HORIZONTAL.	
					Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D,	Upper 'tween decks		26"	5x3x420A	30"	✓	✓
"	"	Second	"	✓				
"	"	Third	"	✓				
"	"	Holds	N ^o 87	45-26	12x3½x3½x32.9	15½ 30"	✓	✓
COLLISION	"	(in Hold)	N ^o 161	53-29	10x3½x44C	24"	F.P.T.T. & BEAMS	2.5.B
AFTER PEAK	"	"	N ^o 9	48-30	9x3½x38L	24"	A.P.T.T. & 5.B. BEAM	2-9x3½x38L

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth*
 Material used by Messrs *Short Bros* i.e. *clear of pre-fabrication :- South Durham, Consett,*
Appley - Frodingham, Dorman Long, George Flett, Skinningrove Iron Co
 Has the Steel been tested as required by the Rules? *yes*

EQUIPMENT No. 40052.75

LETTER at

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.			
41207	1st Bower	68	2	7	✓			53	1	3	14	stockless	W. Byers & Co. Ltd.	LPHS 22-9-41 W.U.N.
41523	2nd "	68	0	7	✓			52	15	2	14	do	do	LPHS 31-12-41 W.U.N.
	3rd "											58½		
	Collective weight										194½			
1349	Stream	19	0	21	5	0	0	20	1	3	14	Iron stock	Sibylor & Sons	LPH-N 31-12-41 JAR

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.	
	Fathoms.	Diam.	Stations.	Break-ing.	Supplied.	Per Rule.	Cwts.	Fathoms.	Diam.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
116757	270	2	100½	14½	579-2-0	720¾		270	2½	"Tayco"	Sibylor & Sons	LPH-N 10-2-42 JAR	TOWLINE	120	4¾	64.6	120	4¾
													HAWSERS & WARPS	2090	2¾	15.2	2090	2¾
														2090	2½	13.2	2090	2½
	90	5			52.8			90	5									

Steering Gear, Type (Power or hand) DonkinAlternative Means of Steering Black & tackle for after which 10 26.4 motor lifeboat 40 per. 10 26.2 lifeboat 40 persons. Boats 2023 lifeboat 30 persons.Steering Chains (Size and Test) TelemotorWindlass blake & hopmanCeiling in Holds, thickness and material 2½ W.W. at bilges onlyCargo Battens, thickness, material and spacing not fitted cleats suppliedCargo Hatchways.—(Upper Deck) Steel plates and anglesThickness of Hatches 2¾ — 2½ at 104Size of Hatchways No. 1 (Fwd.) 31'6" x 20' No. 2 31' x 20' No. 3 31' x 20' No. 4 12'11" x 20' No. 5 31' x 20' No. 6 31' x 20'

Number of Shifting Beams and/or Fore and Afters

5 5 5 1 5 5

Builder's Signature

FOR SHORT BROTHERS, LIMITED

Edgar H Woodward

CHIEF DRAUGHTSMAN

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).The vessel has been built in accordance with the approved plans, the Secretary's letter and the Society Rules and embodies pre-fabricated parts. The materials and workmanship are good.The double bottom and fore and after peak tanks have been tested under water pressure and found good. The decks Upper, Second and Forecastle, bulkheads, tunnel, W.T. doors in casings and ash chute have been hose tested as required by the Rules and found satisfactory. The steering gear secondary means of steering, and windlass have been tested whilst moored in the river.The bilge suction and hand pumps have been tested and found good.No cargo battens have been fitted but cleats suppliedThe third bower anchor has not been suppliedHatch covers omitted on Second deck except at fore and after ends of No 3 and aft end of No 4 and at No 2 and No 5The freeboard markings have been verified and cut in on the vessel's sides.

The amount of Entry Fee..... £ 10 : : 1

Fees applied for,

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

Special Survey Fee..... £ 376 : : 1

Specification 94

Travelling Expenses, if any £ : : 19

Received by me,

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

(with freeboard)

State whether the Vessel has been built under Special Survey yes

Signature

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to SUNDERLAND.Date of issue 13/8/42

Committee's Minute

FRI 24 JUL 1942

Character assigned

+100 A.1With freeboardLloyd's Reg. vs. £50£ 7.42Write Mr.

Lloyd's Register Foundation

011610-011618-011172

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 VESSELS:—

S.S. "EMPIRE NEWTON" SLP RPT NO 33287
S.S. "EMPIRE STORY" do 33351
S.S. "EMPIRE KEATS" do 33398

The following fabricated parts made by Structural Engineering works have been embodied in the vessel:—

Centre girder, keel, floors, bulkheads, tank margin, bilge brackets, continuous gussets, hatch coamings, strong beams, shell plates (amidship body) tank top plating, deck plating, side frames, deck beams, built angle intercostals, intercostals under engine and boilers, hatch beams, deck girders, engine and boiler casings, saloon and bridge, boat deck and sidehouses, F.W. tanks, tunnel, strongbeam and side webs, stringer angles, side bunkers, coal hatches, cabin store.

PARTICULARS OF ELECTRIC WELDING (if employed) W.T. bulkhead stiffener brackets to tank top. Tank side gussets to tank top. Centreline bulkhead stiffeners to tank top. Fore and after peak tank top to shell. Ventilator coamings to deck. Second deck stringer chocks to shell and deck. Alternate butts of keel. Second deck girder rider plates to girder gusset plates.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. D.F. E.S.D.
"Six divisional W.T. bulkheads in 'tween decks."

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower.	45-0-7	J.T.	3945	25-4-41
	2nd "	44-2-7	A.E.G.	3764	29-8-41
	3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop. ✓ 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. 169023 Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length 446.5 (Circ. 1703)

No. and Material of Decks 2 Decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition cement in double bottom tanks, peak tanks and 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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	105.91	309	Fore peak tank,	22.0	117
Double bottom, under Engines and Boilers,	46.5	221	After peak tank,	20.0	110
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	209.75	839	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	362.16	1369	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6002

Date 3.10.41

Dates of Surveys held while building

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

Total No. of Visits 111