

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 *24th March 1928* Port of *Sunderland* No. *29682*Survey held at *Sunderland* Date First Survey *12th Sept. 1927* Last Survey *17th March 1928*On the *(State if Machinery fitted Aft and* *Single Steel Screw Steamer "BOSNIA"*State Type *(Full Scantling, Complete Superstructure with or without Tonnage Openings)* *Full Scantling*State Type of Erections *(Long Bridge & Forecastle)*TONNAGE under Tonnage Deck *2085.45*CLASS *100A1*State if with freeboard as condition of Class *No*Built at *Sunderland*Launched *6th Feb. 1928* Yard No. *560*Builders *Joseph L. Thompson & Sons Ltd.*Owners *America-Libant Line Ltd.*Managers *Stanley & John Thompson Ltd.*
(Where necessary to be entered in Log, Book.)Residence *80 Bishopsgate, London E.C.2.*Port of Registry *London*

If surveyed while building, afloat, or in dry dock

Building & afloat.

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

Total *2085.45*Gross Tonnage *2396.26*Register Tonnage *1247.13*REGISTERED DIMENSIONS.
FEET.Length *292.3*Breadth *45.0*Depth *20.35*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 292.0*Breadth (greatest moulded) *B 44.75*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 22.5*1st Longitudinal Number (L x D) *= 6570*2nd Numeral L x (B + D) *= 19637*Framing Depth "d," at middle of length. See Sec. 3 (1d) *11.12*Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.98*Do. Long Bridge to top of keel *9.65*Draught Moulded *19.44*

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	24 $\frac{1}{2}$		Bracket Floors, Frame	6 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 54	BS
" " from $\frac{1}{2}$ length to Collision bulkhead	24 $\frac{1}{2}$		" " Reversed Frame	6 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 46	BS
" " in peaks	24		" " Vertical Struts	6 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 46	BS
SIDE FRAMING.			Centre Girder, depth and thickness amidships	36 x 46 x 56	BS
Frame Amidships, Angle, \angle or [	7 3 x 36		" " top Angles	3 x 3 x 42 x 52	BS
" " Extends up to	Upper Bridge		" " bottom Angles	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 48	BS
Reversed Frame Amidships, Angle	deck alternately		Side Girders, No. each side and thickness	one 34 x 44	BS
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	27 $\frac{1}{2}$ x 40 x 50	BS
Depth of Framing Girder	8 (mean) <i>cupless</i>		" " Vertical Angle to Tank side	3 x 3 x 34 x 44	
Frames in Uppermost Continuous Deck, Angle, \angle or [	9 3 $\frac{1}{2}$ x 48		" " Bracket abaft $\frac{1}{2}$ len. from stem	5 5 x 34	
" " Second Continuous Deck, Angle, \angle or [	9 3 $\frac{1}{2}$ x 54		" " Bracket forward $\frac{1}{2}$ len. from stem	12 $\frac{1}{2}$ x 3 x 34	
" " BOILER SPACE & BUNKERS.			" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	25.73 $\frac{1}{2}$ x 3 x 34	
" " Third " " " "			" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	98.3 x 3 x 34	
Framing in Peaks, Angle or [	6 3 x 38		Tank Side Brackets, height above base line at toe of Frame and thickness	53 $\frac{1}{2}$ x 36 x 39 x 49	BS BS
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7 3 x 64 x 54		INNER BOTTOM PLATING.		
State if Frame Joggled	No		Breadth and thickness of Middle Line Strake	46 x 42 x 52	BS BS
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Deck framing of bulk angles 9 x 3 x 40 from frame No 12 to Collision bulkhead, & two side stringers as approved.</i>		Thickness of remainder in Holds	36 x 34	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>Midships thickness of three plates of shell plating under keel main & framed to keel position of Collision bulkhead. Single frame 5 x 5 x 34 from 12 to 35$\frac{1}{2}$ ft. from Collision bulkhead. Two side stringers as approved.</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>	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, \angle or [	7 $\frac{1}{2}$ 3 x 37	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [	8 $\frac{1}{2}$ 3 x 42	
Middle Line Keelson, on Floors, Angles, [or [			HALF BEAMS IN WAY OF ENGINES.	6 3 x 37	
" " Through Plate or Intercoastal Plate			Spacing	24 $\frac{1}{2}$	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, \angle or [	8 $\frac{1}{2}$ 3 x 44	
" " Flat Plate Keel Angles			Spacing	24 $\frac{1}{2}$	
Side Keelsons, No. each side			Third Deck, amidships, Angle, [or [
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Fourth Deck, amidships, Angle, [or [
Spacing			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, [or [
Solid Floors, thickness and spacing	BS. 32 x 42 x 73 $\frac{1}{2}$		Spacing		
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Bridge Deck, Angle, \angle or [	5 $\frac{1}{2}$ 3 x 36	
Bracket Floors, breadth and thickness at middle line	42 x 34 x 44	BS.	Spacing	24 $\frac{1}{2}$	
" " breadth and thickness at margin plate	50 x 34 x 44	BS.	Forecastle Deck, Angle, \angle or [	5 $\frac{1}{2}$ 3 x 36	
" " Spacing			Spacing	24 $\frac{1}{2}$	

PILLARS AND DECKS.

			INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		
PILLARS , No. of Rows.....	Forecastle.....	One 28 dia						
	BRIDGE	Double Channels at Hatch ends at Centre Line.						
"	in between Decks, Size and Spacing.....	6 x 3 x 3 x 32						
	MAIN	8 x 3 x 3 x 46						
"	" " " "	70 x 3 x 3 x 34						
"	FORE	10 x 3 x 3 x 56						
"	in Holds	8 x 3 x 3 x 49						
"	" " " "	Channel Pillars clear of Hatch ends fitted as approved.						
"	" " " "	6 3 30 5 1/2 x 3 x 34						
Centre Line Bulkhead. (AFTER HOLD).								
Stiffeners and Spacing.....		24 1/2 x 49						
Plating, thickness of		30						
STRINGERS AND DECKS.								
Uppermost Continuous Deck.								
Stringer Plate, breadth and thickness in Wells		Forward 48-40						
		Aft 44-38						
		72 Bridge End Forward.						
		70 Bridge End Aft.						
	Breadth Amidships.	34 60 35.						
" " " " in way of Bridge		Forward 6 6 48						
" Angle in Wells		Aft 5 5 44						
Thickness of Plating abreast Deck openings in way of Wells		38 x 34						
Thickness of Plating abreast Deck openings in way of Bridge		34 x 30						
Thickness of Plating within line of openings.....		35 34 30						
If Sheathed, material and thickness		None						
Second Deck.								
Stringer Plate, breadth and thickness in Wells.....		34						
Stringer Plate, breadth and thickness in way of Bridge		60 34						
Thickness of Plating abreast Deck openings in way of Wells		30						
Thickness of Plating abreast Deck openings in way of Bridge		30						
Thickness of Plating within line of openings.....		30						
If Sheathed, material and thickness		None						
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.....		46 40						
Plating, Sheathing, material and thickness		34 30						
Forecastle Deck.								
Stringer Plate, breadth and thickness.....		29 32						
Plating, Sheathing, material and thickness		26 25 2 1/2						

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>Side plating only.</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or, to cr.		Diam.	Spacing or, to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	45½	.62	.57	.57		Double,	7/8	3½	3R full L,	7/8	3½	Lapped	
" Base (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes <i>THREE</i>	✓	.49	.49	.45	.41 aft	Double	3/4	3½	3R full L,	3/4	2 5/8	Lapped	
BILGE PLATING, No. of Strakes <i>ONE</i>	✓	.49	.41	.41		—	"	"	—	"	"	—	
SIDE PLATING, No. of Strakes <i>TWO</i>	✓	.49	.40	.42	.40 aft	—	"	"	3R + 2R,	"	"	—	
UPPER DECK, Sheer- strake in Wells	✓	.67	.40	.40		✓	✓	✓	4R + 3R,	1 + 7/8	4.3 1/2 3/8	—	
		BRIDGE END. 1.00.											
UPPER DECK, Sheer- strake in Bridge ...	34	.49	✓	✓		Single	3/4	3½	4R + 3R,	1. 7/8. 3/4.	4.3 1/2 2 5/8	—	
STRAKE BELOW Sheer- strake in Wells	✓	.58	.40	.40		Double	7/8 + 3/4	3 1/2 + 3 1/2	3R	7/8 + 3/4	3 1/2. 2 5/8	—	
STRAKE BELOW Sheer- strake in Bridge ...	✓	.49	✓	✓		—	3/4	3½	3R full L	3/4	2 5/8	—	
POOR SIDE PLATING	✓	✓	✓	✓		(Double at Bridge Ends).	✓	✓	✓	✓	✓	✓	
BRIDGE SIDE PLATING ...	✓	.48	✓	✓		Single	3/4	3½	3R full L	3/4	2 5/8	—	
FOREC'TLE SIDE PLATING	✓	✓	.37	✓		Single	"	"	Single	"	"	—	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

[illegible]

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth Process.

Steel Plates.—Consett Iron Co; Bolekows Vaughan & Co.

Steel Angles: - Cargo Fleet; Bolekew Vaughan & Co; Skinningrove Iron Works; Consett Iron Co.

Has the Steel been tested as required by the Rules? *Yes.*

26 MAR 1928

EQUIPMENT No. <u>20840</u>											LETTER <u>C</u>	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.
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	owts.	qrs.	lbs.	Owts.			
30753	1st Bower ...	42	2	14	Stockless			37	11	3	14	42	Byns Improved Stockless hot plated	Sld 22.2.28, Butler	
30825	2nd „ ...	42	1	21	—	—	—	37	10	0	0	42	— — — — —	— — — — — 28.2.28, — — — — —	
30803	3rd „ ...	35	2	7	—	—	—	32	16	3	14	35½	— — — — —	— — — — — 22.2.28 — — — — —	
	Collective weight.	120	2	14								119½			
42540	Stream	11	1	12	3	0	16	13	5	0	0	11	Rodgers Iron Stock hot plated	E.A. 23.2.27, Pauls	

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.		Supplied.	Per Rule.			Length.	Diam.				Length.	Ins.		Length.	Ins.
15633	120	1½	63½	88½	213.1.7			120	1½	Stud hot plated	Sld 26.1.28, Butler	TOWLINE...	100	4	33	100	4
15640	120	1½	63½	88½	215.0.14			120	1½	—	— 29.2.28 —	HAWSERS & WARPS	90	2½	12½	90	2½
													90	2½	12½	90	2½
													90	2½	9½	90	2½
													90	2½	9½	90	2½
Iron Stream (Chain) Steel Wire	75	1½	44	35				75	1½								

Steering Gear, Steam *John Lynn & Co. Ltd. Selenator Gear Quadrant* Steering Gear, Hand *Relieving tackle operated from after winch.*Boats *2 lifeboats, one cutter, one jolly boat.* Steering Chains, Size and Test ☒ Windlass *Steam - Emerson Walker & Thompson Bros.*Ceiling in Holds, thickness and material *2½ N. H.* Cargo Battens, thickness, material and spacing *9x2 N. H. - 9'-3"*Cargo Hatchways. — (Upper Deck) *Steel plates & angles* Thickness of Hatches *2½ N. H.*Size of No. 1 Hatchway (Forward) *22'5½x17'6"* No. 2 *24'6x17'6"* No. 3 *14'3½x24'0"* No. 4 *14'3½x24'0"* No. 5 *22'5½x17'6"* No. 6 ☒Number of Shifting Beams and/or Fore and Afters *No. 1. 2 + 5 hatchways, - 4 webs; Nos 3 + 4 - 2 webs. No. 5 & 6 afters.*

JOSEPH L. THOMPSON & SONS, LIMITED.

Builder's Signature

J. L. Thompson
Managing Director

GENERAL DECLARATION *This vessel has been built in accordance with the approved plans & instructions, & the Society's printed Rules for the intended class. The materials & workmanship are good & efficient. The foreboard has been tested & the marks cut in on the vessel's sides. The double bottom tanks & peak tanks have been tested & found satisfactory, & the decks, bulkheads & tunnel, have been tested with satisfactory results. The H.T. doors have also been tested & tried, & the fore peak pump tested & found satisfactory. The windlass & steering gear have been tried under working conditions & found satisfactory.*

The following approved plans are in the London Office copies of which are being retained for reference in dealing with the sister vessels. Viz. —
Midship Section, Profile & Decks, Rounded Deck Plating in way of Boiler Room, Bulkheads & Tunnel, Hatch Side Girders, Pillars &c., Rudder, & Pumping Arrangement.

The amount of Entry Fee £ 6 : : :
 Special Survey Fee £ 194 : 16 : :
Freeboard 6 : 8 : 4
 Travelling Expenses, if any £ : : :
 Fees applied for, *21st Mar 1928*
 Received by me, *23rd Mar 1928*

I am of opinion the Vessel should be Classed *100A1.*State whether the Vessel has been built under Special Survey *Yes*

Signature

James Dickie
Surveyor to Lloyd's Register of Shipping.Certificate to be sent to *SUNDERLAND* Date of issue *30/3/28*

Committee's Minute

FRI. 30 MAR 1928

Character assigned

+ 100A1

+ L. Inc. 3.28

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C.L. F.D

Write Sk.

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Lloyd's Register
Foundation

560-0105 2/2

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.)

The Midship Section & Profile & Decks as built are forwarded herewith, together with two Forging Reports.

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

1st Bower 27.0.0; M.B; 3495; 13.1.28.
2nd „ 27.3.0; M.R; 613; 30.1.28.
3rd „ 23.0.0; J.L; 6785; 27.1.28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge 128.62 ft., Forecastle 25.29 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 dks (SH).

Official No. 160388 ; Signal Letters ✓ Is bottom of Vessel coated with cement No if not give particulars of composition. Cement under Boilers.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Water Capacity.	Where Fitted.	*Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	71.46	124		Fore peak tank,	15.50	43	
Double bottom, under Engines and Boilers, 93.92	✓	✓		After peak tank,	8.00	23	
Double bottom, if under Engines only,	22.46	68		Deep tank, aft,	✓	✓	
Double bottom, if under Boilers only, (DRY TANK)	18.37	✓		Deep tank, forward,	✓	✓	
Double bottom, forward,	138.83	334		Other tanks, if fitted,	✓	✓	
	Total capacity of double bottom	526		(If necessary, furnish further information by sketch.)	✓	✓	

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5646

Date 11. 8. 27

Dates of Surveys held while building

1927. Sep. 12. Oct. 3. 12. 17. 21. 25. Nov. 1. 4. 11. 15. 17. 22. 29. Dec. 1. 7. 13. 16. 20. 30. 1928. Jan. 5. 10. 13. 17. 20. 24. 26. 27. 30. 31. Feb. 1. 2. 4. 6. 8. 15. 17. 21. 22. Mar. 1. 6. 8. 12. 15. 16. 17.

Lloyd's Register Foundation

Total No. of Visits 45