

STEEL STEAMER or MOTORSHIP.

Received at London Office JAN 22 1938

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 Newcastle Office.

Date of completion of report

14.1.38.

Port of Sunderland.No. 32289Survey held at Sunderland.Date First Survey 20th Apr. 1937 Last Survey 138.

19

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single screw "ANGLO-INDIAN"State Type (Full Scantling, Complete Superstructure with or without Tonnage Opening) Complete Superstructure with Tonnage Opening State Type of Erections C.S.S. & 4 cl on C.S.S.TONNAGE under Tonnage Deck... 5,078.14.CLASS +100A1.State if with freeboard as condition of Class Yes.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 } L 426.0.
Post on summer L.W.L. See Sec. 3 (1a)Launched 18.11.37. Yard No. 453.

Total

Breadth (greatest moulded) B 61' 2"Builders Messrs Short Bros & CoGross Tonnage 5608.95Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 36.5Owners The Nitrate Producers Steamship Co LtdRegister Tonnage 3340.951st Longitudinal Number (L x D) = 15,549.Managers Crawthorpe Hatters & Co Ltd

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

2nd Numeral L x (B + D) = 40,112.Residence London

REGISTERED DIMENSIONS. FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.9.Port of Registry LondonLength 433.1.Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.67.

If surveyed while building, afloat, or in dry dock

Breadth 61.5Do. Long Bridge to top of keel 25' 3/4"Depth 26.1.Draught Moulded 25' 3/4"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	31 ✓		Bracket Floors, Frame <u>B.A.N.B.S.</u>	8 3 1/2 .40 ✓	
" " from 1/2 length amidships to Collision bulkhead.....	27 ✓		" " Reversed Frame <u>B.A.N.B.S.</u>	8 3 1/2 .35 ✓	
" " in peaks.....	24 ✓		" " Vertical Struts <u>B.A.N.B.S.</u>	8 3 1/2 .33 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x .54 ✓	
Frame Amidships, Angle, [or] <u>N.B.S.</u>	12 x 4 x 4 x 46/60 ✓		" " top Angles	3 1/2 3 1/2 .48 ✓	
" " Extends up to	2 " 0 1/2 ✓		" " bottom Angles	4 4 .56 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	One .38 ✓	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	41 " x .54 ✓	
Depth of Framing Girder	12" ✓		" " Vertical Angle to Tank side	3 1/2 3 1/2 .45 ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 3 1/2 .38 ✓		" " Bracket abaft 1/4 len. from stem	3 1/2 3 1/2 .45 ✓	
" " Second 'tween Decks, Angle, [or]	7 x 3 1/2 x 40 B.A. and 8 x 3 1/2 x 40 B.A. ✓		" " Vertical Angle to Tank side	6 6 .45 ✓	
" " Third " " " " "	✓		" " Bracket from forward 1/4 len. from stem to Panting Area	44. Tank Top plate extended ✓	
" " from 1/4 len. for'd. to 15% len. from Stem	12 x 4 x 4 x 52/62 ✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem	44. Tank Top plate extended ✓	
" " in Peaks, Angle or [4 x 4 x 60 B.A. ✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	44. Tank Top plate extended ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	9 3 1/2 .38 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	44" x .45 ✓	
State if Frame Joggled	7/8 - 5 5/8 ✓		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	24" x .50 ✓	
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	44 ✓	
SINGLE BOTTOM.			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?	Yes ✓	
Floors, Depth and thickness at mid-line in Holds	✓		BEAMS.		
Height of Brackets at side above base line at toe of frame	✓		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	Strong ✓	
Middle Line Keelson, on Floors, Angles, [or]	✓		" " in way of Bridge, Angle, [or]	Framing ✓	
" " Through Plate or Intercoastal Plate...	✓		Spacing		
" " Foundation Plate on Floors	✓		Second Deck, amidships, Angle, [or]	Strong ✓	
" " Flat Plate Keel Angles	✓		Spacing.....	Framing	
Side Keelsons, No. each side	✓		Third Deck, amidships, Angle, [or]	✓	
" " thickness of Intercoastal Plate...	✓		Spacing.....	✓	
" " Angles	✓		Fourth Deck, amidships, Angle, [or]	✓	
DOUBLE BOTTOM.			Spacing.....	✓	
Solid Floors, thickness and spacing	42. Every 3' ✓		Poop Deck, Angle, [or]	✓	
" " Are Frame and Reversed Frame joggled?	Yes ✓		Spacing.....	✓	
Bracket Floors, breadth and thickness at middle line	33" x .42. ✓		Bridge Deck, Angle, [or]	✓	
" " breadth and thickness at margin plate.....	33" x .42. ✓		Spacing.....	✓	
			Forecastle Deck, Angle, [or]	9 3 1/2 .40 ✓	
			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.
PILLARS, No. of Rows.....	One	✓	Stringer Plate, breadth and thickness in way of Bridge	✓	
.. in 'tween Decks, Size and Spacing.....	6x6x68x44 double angles wide spaced	✓	Thickness of Plating abreast Deck openings in way of Wells	36	
" " " " " "			Thickness of Plating abreast Deck openings in way of Bridge	✓	
" in Holds " "	C.L. Bulkhead	✓	Thickness of Plating within line of openings...	36	
" " " " " "			If Sheathed, material and thickness	✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	12x3 1/2 x 60 3/4 5 8x3 1/2 x 40 1/2 9 spaced 46 1/2	✓	Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	30	✓	If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	85"x.63. +.03 Gownes extra	✓	If Plated, state thickness	✓	
" " " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells	6 6 .64	✓	Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	55 78 strakes along side Hatchways for EL	✓	Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	40	✓	Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	81"x.40.	✓	Stringer Plate, breadth and thickness.....	36	
			Plating, Sheathing, material and thickness ...	35	

SHELL PLATING.

SCANTLINGS.						RIVETING.					
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		RIVETS.		No. OF ROWS OF RIVETS.	STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		
FLAT PLATE KEEL	52	79	69	69		Double	1	3 7/8	✓	4	1 4 ✓ Strap.
" DBLG. (if any)	73	see section as built.									
BOTTOM PLATING, No. of Strakes	4	64	50	50	+03 Gownes extra	Double	7/8	3 7/16	✓	4	7/8 3 1/2 ✓ Strap
BILGE PLATING, No. of Strakes	2	64	50	50	+03 Gownes extra	Double	7/8	3 7/16	✓	4	7/8 3 1/2 ✓ Strap
SIDE PLATING, No. of Strakes	3	57	47	47		Double	7/8	3 7/16	✓	3	7/8 3 1/8 ✓ Strap
UPPER DECK, Sheer-strake in Wells.....	84	66	47	47		Double	7/8	3 7/16	✓	4	7/8 3 1/2 ✓ Strap
UPPER DECK, Sheer-strake in Bridge ...	✓	✓									
STRAKE BELOW Sheer-strake in Wells.....	79	63	47	47		Double	7/8	3 7/16	✓	4	7/8 3 1/2 ✓ Strap
STRAKE BELOW Sheer-strake in Bridge ...											
POOP SIDE PLATING											
BRIDGE SIDE PLATING ...		✓									
FORECASTLE SIDE PLATING		42				Single	7/8	3 7/16	✓	1	7/8 3 1/2 ✓ Strap

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)				1	✓
" Deck next below				6	✓
As per Rule				7	✓
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	✓				
" " Second "	✓				
" " Third "	✓				
" " Holds		49-29	12x3 1/2 x 59 3/4	37 1/2	
COLLISION " (in Hold)		54-31	11x3 1/2 x 43	24	Semi-br 2 f.s.
AFTER PEAK " "		70-30	11x3 1/2 x 48	24	Recess

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓ Rolled Iron	10x2 1/2 and .61 heels		
STEM				
STERN FRAME { Propeller Post	Cast Steel	Special Socommo Design	Socommo	
{ Rudder "			Amorides Amorides	
Speed of Vessel		11 knots		
RUDDER—Type		Ordinary		
" A x D		500		
" Diam. of head	Forged Steel	10 1/4	Yung de la Hozne	
" Mainpiece at top pintle		11 1/2 x 7 1/8	Amorides Amorides	
" " heel ...		7 1/2 x 6 1/2		
" how constructed		Amorides Amorides		
" double or single plate		Double .50		
" coupling, vertical or horizontal		Vertical		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **Open. Search**
Shermington Ironworks, Cargo Fleet, Consett, Dorman Works
South Durham

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

Lloyd's Register
Foundation

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.				
	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. Inches.	Rivets in Brackets to Bulkheads.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Spang.	Number.		Diameter.	
Framing of L, L or C																	
Frames in Bridge 'tween Decks ...																	
Frames from Uppermost Continuous Deck No. 1																	
" 2																	
" 3																	
" 4																	
" 5																	
" 6																	
" 7																	
" 8																	
" 9																	
" 10																	
" 11																	
" 12																	
" 13																	
" 14																	
" 15																	
" 16																	
Spacing of Longitudinal Frames																	
Amidships																	
At Ends																	
Double Bottoms																	
L, L or C																	
Tank Top Longitudinals																	
Bottom ..																	
Spacing of Longitudinals																	
Amidships																	
At Ends...																	
Transverses.																	
In Bridge																	
'tween Decks																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell*																	
In Upper 'tween Decks.																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell*																	
In Hold.																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell*																	
" " Back Bars ...																	
Brackets																	
Spacing of Transverse Frames																	
* State if joggled or liners.																	
Longitudinal Beams of L, L or C																	
Bridge Deck ...																	
Upper																	
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.

EQUIPMENT No 40795 ✓										LETTER <u>b+</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.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
37,221	1st Bower ...	72	2	21	✓	✓		55	5	0	0		Byers & Sons Ltd	✓	L.P.H.S. 2.6.37. G.H.B.	
37,440	2nd „ ...	72	2	7	✓			55	5	0	0		" " "	✓	L.P.H.S. 18.8.37. W.V.17.	
37,346	3rd „ ...	62	2	0	✓			49	15	0	0		" " "	✓	L.P.H.S. 7.7.37. G.H.B.	
	Collective weight.	207	3	0	✓							207-0-0 ✓				
96,440	Stream	20	2	0		5	0	21	21	3	3	0	20-2-0 ✓	Iron Stock	✓	L.P.H.N. 15.7.37. G.A.R.

CHAIN CABLES.												HAWERS 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.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
88,793.	300	2 1/16	10 1/2	149 1/8	620.	2 20	300	2 1/16	JAYCO Shd. Rund. S. Taylor & Sons	L.P.H.N. 2.10.37. G.R.	TOWLINE...	130	5	70.4	130	5	
												HAWERS & WARPS }	2240	3 1/2	25.7	2-100	2 3/4
												"	22100	2 3/4	15.2	2-100	2 3/4
Less Stream Chain or Steel Wire }	120	5		57.8			120	5	Galva Special Tear.			"					

Steering Gear, Type (Power or hand) Steam Messrs Donelson & Co Alternative Means of Steering Hand gear Quadrant & Pinion.

Steering Chains (Size and Test) Telemotor Windlass Messrs Ernest Walker & Co Boats Two 24 ft Cylindrical two 18 ft dinghies.

Ceiling in Holds, thickness and material 2 1/2" W.P. under Hatchways Cargo Battens, thickness, material and spacing 6" x 2" W.P. spaced 9" Centre iron in Deep Tanks.

Cargo Hatchways. (Upper Deck) Steel plates and angles Thickness of Hatches 3".

Size of Hatchways No. 1 (Fwd.) 31' 6" x 24' 0" No. 2 38' 9" x 24' 0" No. 3 25' 10" x 24' 0" No. 4 12' 11" x 24' 0" No. 5 31' 0" x 24' 0" No. 6 28' 5" x 24' 0".

Number of Shifting Beams and/or Fore and Afters No. 1-5, No. 2-6, No. 3-2 and Bulb, No. 4-1, No. 5-5, No. 6-4.

Builder's Signature FOR SHORT BROTHERS, LIMITED. E. W. Short DIRECTOR

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 Yes.

(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).

Fuel oil F.P. above 150°F is carried in No. 1, 2, 4 and 5 double bottom tanks and in settling tanks in machinery space starboard side.

The vessel has been built in accordance with the approved plans, the Secretary's letters the Society's Rules. The materials and workmanship are good.

The double bottom tanks, peak tanks, deep tanks and settling tanks have been tested and found in order.

The tunnel, decks, bulkheads, ash shoot, hand pumps watertight door have been tested and found in order.

Forging reports enclosed:- Stem frame, Rudder frame, Rudder stock, Hand quadrant, Quadrant roller.

Damage stated to have been caused by side blocks taking fire. Two shell plates port side forward A to B 12 (numbered from aft) cut off and renewed, cement in way renewed.

The freeboard survey and markings to be carried out on the Tyne whence the vessel proceeded for installation of machinery.

The amount of Entry Fee £ 9 : : : Fees applied for, 4 JAN 1938

Special Survey Fee.... £ 340 : 4 : 6 Received by me, 15 JAN 1938

Travelling Expenses, if any £ 16 : - -

I am of opinion the Vessel should be Classed + 100A1 with freeboard.

State whether the Vessel has been built under Special Survey. Yes ✓

Signature Colin Bartlett Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to SUNDERLAND. Date of issue 8/2/38

Committee's Minute TUE. 1 FEB 1938

Character assigned + 100A1 Fitted for oil fuel 1.38

Lloyd's Assoc which filed 2.0 above 150°F

W. N. N. 1.38 2 SA 1.38 1.38 1.38

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.)

PARTICULARS OF ELECTRIC WELDING (if employed)

All angle shores, Hatch webs, Bulwhead Plate to tank top, Centre line Bulwhead to tank top, Horizontal girders in deep tank, Tunnel ribs to tank top, Deep tank hatch coaming, Auxiliary seats to tank top, Bulge keel to shell, Ash shoot to shell and casing, Peak tops, Tunnel recess top and deep tank top to shell.

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

"Longitudinal framing at decks", "Arcform" Cruiser Stern

Including pin

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

1st Bower 45-0-21. ✓ R.L. 5244 8.1.37
2nd " 48-2-21. ✓ W.H. 6843 23.7.37
3rd " 41-0-7. ✓ R.L. 5399 18.6.37.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 35.3 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 166338

Signal Letters

Extreme Breadth over Belting (Circ. 1611) ✓

Over-all Length (Circ. 1703)

447'-5" ✓

No. and Material of Decks 1 DK: (STL) 4 SHELTER DK: (STL).

Parts of Bottom of Vessel coated with cement or approved composition Bottom coated with cement. ✓

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,	132 ✓	319 ✓	Fore peak tank,		147 ✓
Double bottom, under Engines and Boilers,			After peak tank,		207 ✓
Double bottom, # under Engines only,	26 ✓	100 ✓	Deep tank, aft, amidships. D.T.	23 ✓	959 ✓
Double bottom, # under Boilers only, (Dry Tank).	18 ✓		Deep tank, forward,		
Double bottom, forward,	190 ✓	650 ✓	Other tanks, if fitted,		
Total length (if continuous) and Capacity	366 ✓	1069 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No 5848

Date 2.2.37.

Dates of Surveys held while building

1937. Apr. 20. 27. 29. May 13. 28. June 17. 25. 29. July 13. 19. 21. 22. 28. Aug. 4. 5. 9. 12. 13. 16. 18. 24. 25. 26. 27. 31. Sep. 1. 3. 7. 8. 9. 13. 15. 17. 20. 22. 23. 24. 27. 29. 30. Oct. 1. 5. 7. 8. 11. 12. 13. 15. 19. 20. 21. 26. 28. 29. Nov. 1. 2. 3. 5. 8. 9. 11. 16. 18. 22. 23. 24. 26. 29. 30. Dec. 1. 2. 3. 6. 7. 8. 9. 10.

Total No. of Visits 78