

STEEL STEAMER ~~OR MOTORSHIP.~~

JAN 28 1938

Received at London Office

State if Report has been sent on the Freeboard of the Vessel **YES**State if Report is sent on the Machinery of the Vessel **NO**

Date of completion of report

Port of **MIDDLESBROUGH**No. **16237**Survey held at **HAVERTON HILL-ON-TEES**Date First Survey **19 April**Last Survey **28 December 1937**

On the (State if Machinery fitted with or without Tonnage Opening)

SINGLE SCREW STEAMER "ZARIAN"

State Type (Full Sounding, Complete Superstructure with or without Tonnage Opening)

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING AFTState Type of Erections **FORECASTLE**

TONNAGE under Tonnage Deck

CLASS **+100 A.1.**State if with freeboard as condition of Class **YES**Built at **HAVERTON HILL-ON-TEES**

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

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **415' 0"****CRUISER STERN**Launched **16-12-1937** Yard No. **281**

Total

Breadth (greatest moulded) **56' 6"**Builders **FURNESS S.B. & L.**

Gross Tonnage

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **26' 2" TO 37' 2" TO SHELTER DECK**Owners **ELMINA L.**

Register Tonnage

1st Longitudinal Number (L x D) **415 x 34 = 14179**

Managers

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

REGISTERED DIMENSIONS.

FEET.

Length

Framing Depth "d," at middle of length. See Sec. 3 (1d) **22' 6 1/2"**Residence **LONDON**

Breadth

Proportions—Depth to Length—Uppermost continuous deck to top of keel **10.87**Port of Registry **FREETOWN**

Depth

Draught Moulded **23' 10"**

If surveyed while building, afloat, or in dry dock

WHILE BUILDING

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	30	✓	Bracket Floors, Frame RAIL ANGLE	8 x 3 1/2 x .36	B.S. .46
" " from 1/2 length to Collision bulkhead	27	✓	" " Reversed Frame B.A.	7 x 3 x .45	B.S. .55
" " in peaks	24	✓	" " Vertical Struts PLATE	.41 3" FL	B.S. .51
SIDE FRAMING.			Centre Girder, depth and thickness amidships	42 1/2 x .53	✓
Frame Amidships, Angle, E or F	12 x 3 1/2 x .45	✓	" " top Angles DOUBLE	3 1/2 x 3 1/2 x .47	✓
" " Extends up to 13' BELOW 2ND DK.	12 x 3 1/2 x .46	B.S. 4 IN DEEP TANK	" " bottom Angles DOUBLE	4 x 4 x .53	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	ONE 37 ES. 51	B.S. .51
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	42 x .51	.57 B.S. 61 ES.
Depth of Framing Girder	12	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 1/2 x 6 1/2 x .43	TEE BAR IN WAY OF DEEP TANK 4 IN H. 1 IN DIA. REMAINDER 4 x 3 1/2 x .43 ANGLE
Frames in Uppermost Continuous 'tween Decks, E or F	6 x 3 1/2 x .32	.38 IN BUNKERS	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	.53 IN BULKHEAD SPACE	4 x 3 1/2 x .43 ANGLE
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	CONTINUOUS 18 x .48 B.S.	22 x .53 B.S.
" " Third " " "	✓		" " Gussets, spacing and scantling forward 1/2 len. from stem	26 1/2 x 18 x .43	ALT. FRE.
Framing in Peaks, Angle or F	7 x 3 1/2 x .4	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	65 1/2 x .41	.51 B.S.
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 64	48 IN DEEP TANK	INNER BOTTOM PLATING.		
State if Frame Joggled	NO	✓	Breadth and thickness of Middle Line Strake	77 x .48 to .46	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	PANTING BEAMS, STRINGERS & DEEP FLOORS FITTED AS APPR.	✓	Thickness of remainder in Holds	43 to 39	61 to 57 B.S.
STRENGTHENING OF BOTTOM FORWARD. State Particulars	THREE STRAKES OF PLATING NEXT KEEL .64 FROM 1/2 LEN. FIRM TO RULE POSITION OF COLLISION BULKHEAD	✓	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	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships in Wells, Angle, E or F	8 x 3 x .4 to 8 x 3 x .34	✓
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, E or F	8 x 3 x .36 IN WAY OF CASINGS	✓
Middle Line Keelson, on Floors, Angles, E or F	✓		Spacing	EVERY FRAME	✓
" " Through Plate or Intercoastal Plate	✓		Second Deck, amidships, Angle, E or F	12 x 4 x .4 to 49 CH. 7	✓
" " Foundation Plate on Floors	✓		Spacing	EVERY FRAME	✓
" " Flat Plate Keel Angles	✓		ORLOP		
Side Keelsons, No. each side	✓		Third Deck, amidships, Angle, E or F	12 x 4 x .4 to 54 CH. 7	✓
" " thickness of Intercoastal Plate	✓		EXTENDS FROM 92 TO 119	9 x 3 1/2 x .44	B.A. ✓
" " Angles	✓		Spacing	EVERY FRAME	✓
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, E or F	✓	
Solid Floors, thickness and spacing	41 x .51 E & B. SPACE SPACED AS APPROVED	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	NO	✓	Bridge Deck, Angle, E or F	✓	
Bracket Floors, breadth and thickness at middle line	3' 5" x .41 3 FL. .51 B.S.	✓	Spacing	✓	
" " breadth and thickness at margin plate	6' 0" x .41 3 FL. .51 B.S.	✓	Forecastle Deck, Angle, E or F	7 x 3 x .36	✓
			Spacing	EVERY FRAME	✓

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PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
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				375	no. 36
Thickness of Plating within line of openings				4	no. 32
If Sheathed, material and thickness				2 1/2	AR IN GUNPORTS SPARE ONLY
Centre Line Bulkhead.					
Stiffeners and Spacing				78	no. 32
Plating, thickness of				32	
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					
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. State if jogged? <i>YES.</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		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	<i>51</i> ✓	<i>.76</i> ✓	<i>.71</i> ✓	<i>.71</i> ✓		<i>DOUBLE</i>	<i>1</i>	<i>3 3/4</i>	<i>QUAD. TO TREBLE</i>	<i>1</i> ✓	<i>4</i> ✓	<i>LAPPED</i> ✓
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes <i>THREE</i> ..	<i>A 87</i>	<i>.58</i> ✓	<i>.48</i> ✓	<i>.52</i> ✓	<i>.58 AT STERN FRAME</i>	<i>DOUBLE</i>	<i>7/8</i>	<i>3 1/2</i>	<i>TREBLE</i>	<i>7/8</i>	<i>3 1/2</i> ✓	✓
	<i>B 89</i>	✓	✓	<i>.61</i> ✓	<i>.66 5000 1/2 L. B. NO. 2</i>	✓	✓	✓	✓	✓	✓	✓
	<i>C 89</i>	✓	✓	<i>.5</i> ✓	<i>70 COLLISION BULK</i>	✓	✓	✓	✓	✓	✓	✓
BILGE PLATING, No. of Strakes <i>ONE</i> ..	<i>D 79</i>	✓	✓	<i>.5</i> ✓	<i>.58 AT STERN FRAME</i>	✓	✓	✓	✓	✓	✓	✓
	<i>E 76</i>	<i>.58</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓	<i>.58 AT STERN FRAME</i>	✓	✓	✓	✓	✓	✓	✓
SIDE PLATING, No. of Strakes ... <i>FOUR</i> ..	<i>F 80</i>	<i>.63</i> ✓	<i>.50</i> ✓	<i>.50</i> ✓		✓	✓	✓	✓	✓	✓	✓
	<i>G 82</i>	<i>.63</i> ✓	<i>.50</i> ✓	<i>.50</i> ✓		✓	✓	✓	✓	✓	✓	✓
	<i>H 82</i>	<i>.58</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓		✓	✓	✓	✓	✓	✓	✓
UPPER DECK, Sheer- strake in Wells.....												
UPPER DECK, Sheer- strake in Bridge ...	<i>K 7 1/2</i>	<i>.68</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓					<i>QUAD. TO TREBLE</i>	✓	✓	✓
STRAKE BELOW Sheer- strake in Wells.....	<i>L 70 3/8</i>	<i>.60</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓					<i>TREBLE</i>	✓	✓	✓
STRAKE BELOW Sheer- strake in Bridge ...												
POOP SIDE PLATING												
BRIDGE SIDE PLATING ...												
FOREC'TLE SIDE PLATING			<i>.42</i> ✓			<i>SINGLE</i>	<i>3/4</i> ✓	<i>3</i> ✓	<i>SINGLE</i>	<i>3/4</i> ✓	<i>2 5/8</i> ✓	<i>LAPPED</i> ✓

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	ONE
" Deck next below	SIX (INCLUDING 4282+92)
As per Rule	SEVEN

STIFFENERS.

	Plating Thickness.				
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	37	42x16	7x3	42x16	30
" " Second	62	42x16	7x3	42x16	30
" " Third	82	42x16	7x3	42x16	30
" " Holds	124	42x16	7x3	42x16	30
COLLISION " (in Hold)	162	55x13	10x3	55x13	24
AFTER PEAK "	8	3			

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				FLAT PLATE
STEM				PLATING
STERN FRAME				Propeller Post
				Rudder
Speed of Vessel	11 knots			
RUDDER—Type				
" A x D				
" Diam. of head				
" Mainpiece at top pintle				
" " heel				
" how constructed				
" double or single plate				
" coupling, vertical or horizontal				

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	SOUTH DUKHAM STEEL & IRON CO. L ^{td} CHARGE KILN STEEL IRON CO. L ^{td} DORMAN LONG & CO. L ^{td} CONSETT IRON CO. L ^{td} APPLEBY FRODIGHAM STEEL CO. L ^{td} SKINNER & CO. L ^{td}
	Has the Steel been tested as required by the Rules? YES.

leave out

JAN 28 1938

EQUIPMENT No 39476 ✓										LETTER 2+ ✓		ANCHORS. 38.15.1K.			
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.	cwts.	qrs.	lbs.				
96846	1st Bower ...	66	2	21	✓			51	19	1	14	68	STEAKLESS.	STAYLOR & SONS	NET/ERTON 21.12.37. J.A.R.
96845	2nd „ ...	65	0	0	✓			51	0	0	0		D°	“	21.12.37. “
96843	3rd „ ...	64	1	14	✓			50	15	0	0		D°	“	“ “ “
	Collective weight.	196	0	7	✓							194½ ✓			
96623	Stream	19	0	21	✓	4	3	7	20	4	0	7	COMMON STOCK.	“	NET/ERTON 12.10.37 J.A.R.
96744	12095.	8	0	10	✓	20	4	CHAIN CABLES.	10	5	0	0			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.	Stab- tory.	Break- ing.	Supplied.		Per Rule.	Length.	Diam.	Length.					Diam.	Length.		Diam.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
88881	270	2 1/2	107 1/2	149 1/2	6	15	2	10			TAYCO	STAYLOR & SONS	NET/ERTON 21.12.37. J.A.R.	TOWLINE... 25W.	120	4 1/2	✓	646	120	4 1/2
														HAWSERS & WARPS 6.5W.	2090	2 1/4	✓	147	2090	147
														"	2090	2 1/4	✓	147	2090	147
Iron Stream Steel Wire	2 1/2	90	4 1/2	5 1/2	✓				90	4 1/2		TYNE WIRE ROPE	MANUFACTURING CO. LTD.							

Steering Gear, Steam **DONKIN & SONS L^o. DIRECT CONTROL** Steering Gear, Hand **BLOCKS & TACKLE LED TO WINCH.**

Bowts **TWO LIFE BOATS** Steering Chains, Size and Test ✓ Windlass **STEARY. EMERSON WALKER.**

ONE DUGHT. ONE MOTOR LAUNCH

Ceiling in Holds, thickness and material **2 1/2" X.W. UNDER HATCHES** Cargo Battens, thickness, material and spacing **6" X.W. 9' APART.**

Cargo Hatchways. (Upper Deck) **FIVE. T & B. PATENT ROLLING** Thickness of Hatches **2 1/2" ✓**

Size of No. 1 Hatchway (Forward) **31'6" X 20'** No. 2 **32'6" X 20'** No. 3 **32'6" X 20'** No. 4 **82'6" X 20'** No. 5 **32'6" X 20'** No. 6 ✓

Number of Shifting Beams **FIVE SHIFTING BEAMS TO EACH HATCH.**

N^o 1 HATCH 18 1/2" X 36" PLATE 4" X 3" X 44" ANGLES. DOUBLE TOP & BOTTOM

N^{os} 2, 3, 4 & 5 HATCHES 14 1/4" X 34" PLATE 4" X 3" X 44" ✓ **FURNESS SHIPBUILDING CO. LTD**

Builder's Signature *John Gorman* 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 **FITTED FOR OIL FUEL**

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo **FR. ABOVE 150° F.**

The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved plan, the Secretary's letter dated Jan 16th Dec. 1936 to 18th Nov. 1937 and in general conformity with the Rules & Regulations for the class contemplated. The workmanship & materials are good. Fore & after peak tanks, deep tanks, oil fuel tanks and double bottom tanks have been tested under pressure, the weather deck, second deck, watertight bulkheads & watertight doors tested with hose, all with satisfactory results. Freeboard verified. The vessel has left this Port for the Tyne where the machinery will be installed. The following work requires to be done to complete the Survey & the Newcastle Survey as have been notified accordingly. Examination of windlass, steam steering gear and auxiliary steering gear under working conditions, & completion of cargo after the machinery has been installed. This vessel is a certified vessel of S.S. LAFIAN REPORT N^o 16175

The amount of Entry Fee £ 8 : - : -	Fees applied for,	(Special notations, where part of class, to be stated.)
	19	
Special Survey Fee.... £ 3/8 : 11 : -	Received by me,	
Freeboard. 15 : - : -	1/4 1938	
Travelling Expenses, if any £ : : :		

I am of opinion the Vessel should be Classed **+100 RI.**

WITH **FREEBOARD.**

State whether the Vessel has been built under Special Survey **YES**

Signature *J. G. Rickman*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Neill & Co. Ltd.* Date of issue **4/4/38**

Committee's Minute

Character assigned **+100 RI (on Nov. 95892)**

With freeboard

Lloyd's arch.

2.38

Date build 2, 38

Fitted for oil fuel 2.38. H. above 150° F

2 S.B. (Sph.) 22, & 1 aux. S.B

2021

Lloyd's Register Foundation

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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 *S/S "LAFIAN"* REPORT N^o 16175.

CERTIFICATES OF CASTINGS ENCLOSED HEREWITH.

THE APPROVED PLANS WERE FORWARDED WITH REPORT OF *S/S "LAFIAN"*

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. *+100 A1. WITH A FREEBOARD CORRESPONDING TO A DRAUGHT NOT EXCEEDING THAT CONTEMPLATED BY THE RULES FOR A COMPLETE SUPERSTRUCTURE SHIP HAVING A TONNAGE OPENING. CRUISER STERN. FITTED FOR OIL FUEL F.P. ABOVE 150°F.*

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower <i>38-2-2 L.F.R. N^o 2631. 3.9.37. INCLUDING PIN 42-2-9</i>
	2nd „ <i>36.3-20 L.F.R. N^o 2334. 21.5.37. D: 40-3-27</i>
	3rd „ <i>36.2-12 W.H. N^o 6704. 14.5.37. D: 40-2-19</i>

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle *44-15* ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks *ONE DECK (STL) & SHELTER DECK (STL)* *Platform deck in part N^o 2 Hold*
PART ORLOP DECK (STL)

Official No. : Signal Letters

Is bottom of vessel coated with cement *PART COATED* *pt ash* if not give

particulars of composition *FORE + AFTER PEAK TANKS CEMENTED. W.B. TANKS CEMENT FILLETS AT SEAMS. BUTTS, TUNNEL WELL + D.B. TANK WELLS BITUMASTIC SOLUTION. D.B. OIL TANKS BARE STEEL.*

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>62-6</i>	<i>197</i>	Fore peak tank,	<i>23-6</i>	<i>183</i>
Double bottom, under Engines and Boilers,	<i>42-6</i>	<i>173</i>	After peak tank,	<i>20-0</i>	<i>139</i>
Double bottom, if under Engines only,	<i>25-0</i>	<i>127</i>	Deep tank, aft, <i>tanks in way of tunnel 194 TONS</i>	<i>55-0</i>	<i>363</i>
Double bottom, if under Boilers only, <i>(DRY TANK)</i>	<i>165-6</i>	<i>575</i>	Deep tank, forward,	<i>25-0</i>	<i>93</i>
Double bottom, forward,	<i>295-8</i>	<i>1072</i>	Other tanks, if fitted, <i>OIL FUEL BUNKERS P+S</i>	<i>10-0</i>	<i>72-5</i>
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. *1514*

Date *2.2.37*

Dates of Surveys held while building

*1937: Apr 19, 24, 28 May 4, Jun 19, 11, 14, 17, 21, 23, Jul 1, 7, 9, 12 Aug, 5, 23 Sep 1, 8, 15
22, 27 Oct 7, 12, 18 Nov 8, 22, 23, 24, 25, 26, 29 Dec 1, 2, 3, 7, 9, 12, 15, 16, 20, 22, 25*

Total No. of Visits *43*