

STEEL STEAMER

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 **YES**

Date of completion of report

3: 6: 43.

Port of

MIDDLESBROUGH

No.

17466

Survey held at

HAVERTON HILL ON TEES

Date First Survey

11th Feb 1942

Last Survey

27th May

1943

On the

(State if Machinery ~~is~~ ^{is} ~~Single~~ ^{Complete} ~~without Tonnage Openings~~ ^{without Tonnage Openings})

S/S "LAFIAN"

State Type

(State if Machinery ~~is~~ ^{is} ~~Single~~ ^{Complete} ~~without Tonnage Openings~~ ^{without Tonnage Openings})

COMPLETE SUPERSTRUCTURE WITHOUT TONNAGE OPENINGS.

State Type of Erections FORECASTLE.

TONNAGE under

6637.43

Tonnage Deck...

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

Total

6637.43

Gross Tonnage

7221.45

Register Tonnage

5055.26

CLASS **100 A.1.**

State if with freeboard

YES.

WITH FREEBOARD.

as condition of Class

CORRESPONDING TO AN EXTREME

Length from fore part of stem to after part of stern

L 415'-0"

Breadth (greatest moulded)

B 57'-0"

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

D 34'-16"

1st Longitudinal Number (L x D) $415 \times 34.16 = 14179$ 2nd Numeral L x (B + D) $415(57 + 34.16) = 37831$

Framing Depth "d," at middle of length. See

22'-62"

Proportions—Depth to Length—Uppermost con-

11'-17"

Do. Long Bridge to top

25'-6"

Draught Moulded

25'-6"

Built at HAVERTON HILL ON TEES

Launched 25-3-43. Yard No. 352.

Builders FURNESS S.B. CO LTD.

Owners UNITED AFRICA CO LTD.

Managers

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

Residence

Port of Registry LIVERPOOL




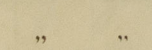
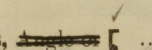
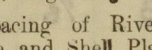
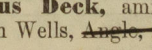
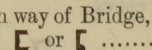
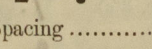
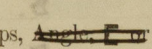
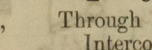
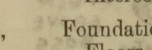
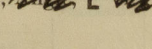
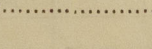
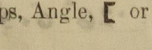
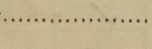
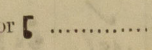
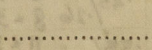




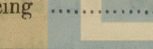
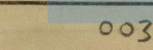
If surveyed while building, afloat, ~~on dry dock~~

SURVEYED WHILE BUILDING & AFLOAT

REGISTERED DIMENSIONS.

Length 423-05
Breadth 57-2
Depth 34-65

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	8" 3 1/2" 40"	✓
" " from 3/4 length to Collision bulkhead.....	27"	✓	" " Reversed Frame	8" 3" 36"	✓
" " in peaks.....	24"	✓	" " Vertical Struts PLATES	3'-2" 41" 51"	✓
IDE FRAMING.			Centre Girder, depth and thickness amidships	42 1/2" 53" 45"	✓
Frame Amidships, 	12" 3 1/2" 45"	✓	" " top Angles	3 1/2" 3 1/2" 47"	✓
" " Extends up to	2 ND DECK.	✓	" " bottom Angles	4" 4" 53"	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	ONE 37"	✓
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	42" 51" 57"	✓
Depth of Framing Girder	12"	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	T.G. 4" 53"	✓
Frames in Uppermost Continuous 'tween Decks,  or 	7" 3 1/2" 34"	✓	TANK TOP LEVEL " " Angle to Tank side Bracket forward 1/4 len. from stem	T.G. 1/2" 6 1/2" 53"	✓
" " Second 'tween Decks, Angle,  or 	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem	22" 43" 2" FLG.	✓
" " Third " " " "	✓		" " IN WAY OF ORLOP DECK Gussets, spacing and scantling forward 1/4 len. from stem	26 1/2" 18" 43"	✓
Framing in Peaks, 	8" 3 1/2" 34"	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	65 1/2" 43"	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 5 3/4"	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	NO.	✓	Breadth and thickness of Middle Line Strake	77" 51" 57"	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	DEEP FRAMES CLOSE SPACED	✓	Thickness of remainder in Holds	43"	✓
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	INCREASED THICKNESS OF SHELL AND CLOSE SPACED INTERCOSTALS.	✓	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,  or 	8" 3" 40"	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle,  or 	✓	
Middle Line Keelson, on Floors, Angles,  or 			Spacing	EVERY.	✓
" " Through Plate or Intercoastal Plate			Second Deck, amidships,  or 	9" 3 1/2" 38"	✓
" " Foundation Plate on Floors			Spacing	EVERY.	✓
" " Flat Plate Keel Angles			ORLOP IN N° 3 HOLD & AFT END N° 2 Deck, amidships,  or 	12" 4" 4" 54"	✓
Side Keelsons, No. each side			Spacing	EVERY.	✓
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle,  or 	✓	
" " Angles			Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle,  or 	✓	
Solid Floors, thickness and spacing	H. ES. BS. 41" 41" 51"	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	NO.	✓	Bridge Deck, Angle,  or 	✓	
Bracket Floors, breadth and thickness at middle line	3' 4 1/2" 41" 51"	✓	Spacing	✓	
" " breadth and thickness at margin plate	4'-0" 41" 51"	✓	Forecastle Deck, Angle,  or 	7" 3" 46"	✓
			Spacing	EVERY.	✓

[illegible]

SCANTLINGS.				RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			No. of Rows of Rivets.	BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.			RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or to cr.		Diam.	Spacing or to cr.	
	Inches.	Inches.	Inches.	Inches.								
FLAT PLATE KEEL	51"	79"	74"	74"		2	1"	3 3/4"	4	1"	3 3/4"	LAPPED.
" DELG. (if any)	✓											
BOTTOM PLATING, No. of Strakes		60"	48"	48"		2	7/8"	3 3/8"	3	7/8"	3 3/8"	"
BILGE PLATING, No. of Strakes		65"	54"	60"		2	7/8"	3 3/8"	3	7/8"	3 3/8"	"
SIDE PLATING, No. of Strakes		60"	50"	50"		2	7/8"	3 3/8"	3	7/8"	3 3/8"	"
UPPER DECK, Sheer-strake in Wells	71 1/4"	75"	46"	46"		-	-	-	4	1	4	"
UPPER DECK, Sheer-strake in Bridge ...	✓											
STRAKE BELOW SHEER-strake in Wells	70 1/8"	60"	46"	46"		2	1	3 3/4"	3	7/8"	3 3/8"	"
STRAKE BELOW SHEER-strake in Bridge ...		3 STRAKES NEXT TO KEEL PLATE. 66"										
STRAKE BELOW SHEER-strake in Bridge ...		1/2 L. TO COLLISION BND.										
POOF SIDE PLATING	✓											
BRIDGE SIDE PLATING ...	✓											
FORE/TFLE SIDE PLATING		42"				1	3/4	3	1	3/4	2 5/8	LAPPED.

WATERTIGHT BULKHEADS.

For record: 884 (Call 6 Wdk, 4 1/2 and 4 1/2) 6 divisional W.T. BHs in Tween decks

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c)	7. { 6 DIV. W.T. BULKHEADS IN TWEEN DECKS.
„ Deck next below	8. See plan of Profile & Decks
As per Rule	7. "as built re closing of openings

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar FLAT PLATE. 1/4" 21" ROLLER STEEL STEM { PLATED ABOVE.	To L.W.L. 4" DIA	1 1/4" PLATES BUILT UP & E.W.	1 1/4" PLATES	
STERN FRAME { Propeller Post Rudder	11-8" 15"	11-8" 11-1/2" ABOVE BOSS	11-8" BELOW BOSS	
Speed of Vessel. 12 1/2 KNOTS		11-8" PLATES		
RUDDER—Type. DOUBLE PLATE STREAM LINED.				
" A x D 51 9				
" Diam. of head 14 1/2"	FORGED STEEL	11 1/2" DIA		
" Mainpiece at top pintle		COUPLING & BOTTOM PIECE CAST STEEL		
" " heel				
" how constructed				
" double single plate coupling, vertical		60"		
" horizontal	6-3 3/4"	BALTO.		
		STEINHEIMER FABRICATION BY CULVERVILLE CONSTRUCTION CO. L.T.		
		RUBBER ARMS & HEAD BY WASHINGTON STEEL CLYD.		
		RUBBER FABRICATED BY FURNESS S.B. CLYD.		
		TILLER & SUBORDINANT BY HEAD WEIGHTMAN CO. L.T.		
		Manufactured by		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS.

PLATES:- SOUTH DURHAM S & I CO LTD. BETHLEHEM STEEL CO

ANGLES:- CARGO FLEET, SKINNINGGROVE IRON CO LTD, DORMAN LONG & CO LTD, CONSETT IRON CO LTD

Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No 39683.										LETTER at		ANCHORS. 28. IS. 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.							
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.					lbs.						
42069	1st Bower ...	73	0	0	✓	55	5	0	0	68-0-0	✓	✓	SUNDERLAND 22-G-42 W.V.N.								
42056	2nd " ...	72	3	7	✓	55	5	0	0	68-0-0	✓	✓	SUNDERLAND 16-G-42 W.V.N.								
	3rd " ...	EQUIPMENT IN ACCORDANCE WITH LETTER OF THE 6 TH JAN 1942.																			
	Collective weight.	145	3	7	✓	136-0-0															
27523	Stream	21	0	7	5	3	21	21	14	1	14	19-0-0	✓	LOW WALKER 25-11-42 A.G.							
55599	KEDGE.	9	2	2	2	1	26	11	11	0	OWNERS REQUIRE ^{TS}	✓	IRON STOCK.	CRADLEY HEATH 4.12.42 W.V.N.							
CHAIR CABLES.														HAWSEYS 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.	Staun- tory.	Break- ing.	Supplied.	Per Rule.	Cwts.	qrs.	lbs.					Cwts.	qrs.		lbs.	Length.	Cir.	Tons.	Length.
3137	270	2 1/16	107 1/2	149 1/2	9	619	0	14	720	3/4	✓	✓	J.A.R.	TOWLINE...	120	4 3/4	64	6	120	4 3/4	
3138	270	2 1/16	107 1/2	149 1/2	9	24	1	9	✓	✓	✓	✓	NETHERTON 17-11-42	HAWSEYS & WARPS	120	4 3/4	64	6	120	4 3/4	
	5	2 1/16	107 1/2	149 1/2	9	24	1	9	✓	✓	✓	✓	J.A.R.			120	2 1/4	16	✓	90	2 1/4
					9	24	1	9	✓	✓	✓	✓	NETHERTON 17-11-42			120	2 1/4	16	✓	90	2 1/4
INCREASED		1/16" DIA.		AS PER OWNERS REQUIREMENTS		643-1-23															
Iron Stream Chain or Steel Wire	90	4 1/4	✓	51.5	✓	✓	✓	90	4 1/4	STEEL WIRE 5/16"	✓	✓			120	2 1/4	16	✓	90	2 1/4	

Steering Gear, Steam DONKIN & CO'S TELEMOTOR GEAR. ✓ ALTERNATIVE
 LIFEBOATS:— 1 @ 24'-0" × 7'-5½" × 3'-0" 1 @ 24'-0" × 9'-0" × 3'-8" Steering Gear, ~~Blocks~~ BLOCKS & TACKLE LED TO WINCHES
 Boats MOTOR LIFEBOAT 24' × 7'-5½" × 3'-0" Steering Chains, Size and Test. NONE ON UPPER DECK.
 29' × 9'-0" × 3'-8" Windlass EMERSON WALKER
 Ceiling in Holds, thickness and material. CEILING FITTED OVER BILGES ONLY. 2½" W.P. ✓ PROVISION MADE BUT
 Cargo Hatchways, —(Upper Deck) 9 × 3½ × 40 BA 2½" ABOVE BEAM CARGO BATTENS NOT FITTED.
 COAMING 50" Thickness of Hatches. Nos 1, 2, 3, 4, 5 & 6 = 2½" W.P.
 Size of No. 1 Hatchway (Forward) 31'-6" × 20'-0" No. 2 32'-6" × 20'-0" No. 3 32'-6" × 20'-0" No. 4 32'-6" × 20'-0" No. 5 32'-6" × 20'-0" No. 6 ✓
 Number of Shifting Beams and Fore and Afters Nos 1, 2, 3, 4, 5 & 6 = 5 EACH. ✓

For FURNESS SHIPBUILDING CO LTD
Builder's Signature *McGovern* 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 No ✓
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo YES, OIL IN DEEP TANK ✓ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point. ABOVE 150° F. MIDSHIPS. ✓

This vessel has been built in accordance with the approved plans, Secretary's letters and in general conformity with the Rules and Regulations for the class contemplated. All double bottom tanks, deep tank amidships, tanks at sides of tunnel in after hold, fore and aft peak tanks have been tested to rule requirements with satisfactory results. The bulkheads, tunnel, weather decks, and 2nd deck have been tested with water from a hose and found tight. The steering gear and auxiliary steering, windlass, winches, have been tested under working conditions and found satisfactory. The Freeboard has been marked and cut in on vessels sides and verified. The workmanship and materials are good.

The amount of Entry Fee £	10	0	0	Fees applied for,
				5. 6. 1943
Special Survey Fee . . . £	380	10	6	Received by me,
FREBOARD.	18	0	0	
Travelling Expenses, if any £	✓	0	0	
				19

State whether the Vessel has been built under Special Survey YES

Certificate to be sent to MIDDLESBROUGH Date of issue 1/7/43

Committee's Minute

Character assigned

with foreward
Carrying Cargo oil F.P above 80°F
in midship deck tanks
Lloyd ABCR
+ LMC 5.43 FD CH

(Special notations, where part of class, to be stated.)
 NO CARGO BATTENS FITTED.
 CRUISER STERN. COLLISION BULKHEAD TO SHELTER DECK.
 2 TO SECOND DECK. 6 DIVISIONAL W.T. BULKHEADS IN TWEEN DECK.
 I am of opinion the Vessel should be Classed **100A1** with FREEBOARD
 corresponding TO A SUMMER DRAUGHT OF 25'-6".

Signature *H. C. Young. Cyrus B. Sconer.*
Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register
Foundation

0026 $2/2$

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.)

SISTER VESSEL: MIDDLESBROUGH REPORT N° 17431. S/S "KUMASIAN" FURNESS, YARD N° 351.

MIDSHIP SECTION & PROFILE & DECK PLANS AS BUILT.

PARTICULARS OF ELECTRIC WELDING: RUDDER, & STERN FRAME.

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

WIRELESS, DIRECTION FINDING, PROVISION MADE FOR ECHO SOUNDING GEAR, BUT NOT FITTED. CRUISER STERN.

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

1st Bower	43-2-2	J.O.	N° 3990	19.2.42.
2nd " STREAM ANCHOR	43-2-8	J.O.	N° 3967	6.2.42.
3rd " RODGER TYPE	20-0-26	J.H.J.	N° 5332	13.11.42.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 43.18 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 2 DKS (STL). ORLOP DECK (FRS. 92 TO 119). N° 3 HOLD & AFT END N° 2 HOLD
EXTREME BREADTH 57.2' LENGTH OVERALL 439'-0"

Official No. 168857; Signal Letters Is bottom of vessel coated with cement YES. UNDER ENGINES & BOILERS. CEMENT FILLETS ON BOTTOM ELSEWHERE. particulars of composition ALL D.B. TANKS CEMENT WASHED. DEEP TANK AMIDSHIPS, OILED.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	62.5	201.	Fore peak tank,	24.0	184.
Double bottom, under Engines and Boilers,	42.5	192.	After peak tank,	19.25	137.
Double bottom, if under Engines only, +3 Coll Dr.	7.5		Deep tank, at MIDSHIPS (OPEN TO BOTTOM)	25.0	1050.
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward, +1 Coll Dr. of 2.5' = 168	165.5	587	Other tanks, if fitted, TUNNEL SIDES (OPEN TO BOTTOM)	55.0	365.
	Total capacity of double bottom	980	(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. 1549

Date 29.6.42.

Dates of Surveys held while building

1942 Feb: 11 Apr: 14 21 June: 4 22 July 8 Aug: 5 10 11 21 26 28 Sep: 2 3 8 16 21 Oct: 7 9 12 20
22 27 28 Nov: 3 5 17 23 25 Dec: 2 8 10 14 16 (1943) Jan: 8 13 20 29 Feb: 5 9 10 19 22 23 25
26 Mar: 1 2 3 4 5 8 10 11 17 22 25 29 Apr: 6 7 8 20 29 May: 3 5 12 14 18 19 21 22 24 25 26 27

Total No. of Visits 75