

State if Report is sent on the Machinery of the Vessel.....Yes.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections None

If surveyed while building, afloat, or in dry dock  
during construction

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b> .....	21 ✓		<b>Bracket Floors, Frame</b> .....		
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....}	21 ✓		" " Reversed Frame.....		
" " in peaks .....	21 ✓		" " Vertical Struts .....		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		
Frame Amidships, Angle, $\angle$ or $\Gamma$ .....	5 3 40 ✓		" " top Angles .....		
" " Extends up to.....	UPPER DECK ✓		" " bottom Angles.....		
Reversed Frame Amidships, Angle .....	2 1/2 2 1/2 40 ✓		<b>Side Girders, No. each side and thickness</b> .....		
" " Extends up to.....	ACROSS FLOORS ✓		<b>Margin Plate</b> depth (excl. of flange) and thickness .....		
Depth of Framing Girder.....	5 ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....		
Frames in Uppermost Continuous 'tween Decks, Angle, $\angle$ or $\Gamma$ .....}			" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area .....		
" " Second 'tween Decks, Angle, $\angle$ or $\Gamma$ .....			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....		
" " Third .....			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....		
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem .....			<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		
" " in Peaks, Angle $\angle$ or $\Gamma$ .....	5 3 40 ✓	5 x 3 x 34 cu plan approved	<b>INNER BOTTOM PLATING.</b>		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	3/4" - 5/4" ✓		Breadth and thickness of Middle Line Strake...		
State if Frame Joggled.....	Ko. ✓		Thickness of remainder in Holds .....		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved ? .....			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 ?.....		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved ?.....			<b>BEAMS.</b>		
<b>SINGLE BOTTOM.</b>			Uppermost Continuous Deck, amidships in Walls, Angle, $\angle$ or $\Gamma$ .....	5 3 30 ✓	
Floors, Depth and thickness at mid-line in Holds.....	15" x 30" ✓		" " in way of Bridge, Angle, $\angle$ or $\Gamma$ .....	✓	
" " Height of Brackets at side above base line at toe of frame.....	15" x 40" ✓		Spacing .....	21 ✓	
Middle Line Keelson, on Floors, Angles, $\angle$ or $\Gamma$ .....	12" x 4" x 36 lbs. ✓		<b>Second Deck, amidships, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
" " Through Plate or Intercoastal Plate .....	✓		Spacing .....		
" " Foundation Plate on Floors .....	✓		<b>Third Deck, amidships, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
" " Flat Plate Keel Angles .....	✓		Spacing.....		
Side Keelsons, No. each side.....	ONE ✓		<b>Fourth Deck, amidships, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
" " thickness of Intercoastal Plate.....	✓		Spacing.....		
" " Angle in Boiler Room & Bunker .....	5 4 48 ✓		<b>Poop Deck, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
<b>DOUBLE BOTTOM.</b>			Spacing.....		
Solid Floors, thickness and spacing .....			<b>Bridge Deck, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
" " Are Frame and Reversed Frame joggled ? .....			Spacing.....		
Bracket Floors, breadth and thickness at middle line .....			<b>Forecastle Deck, Angle, <math>\angle</math> or <math>\Gamma</math> .....</b>		
" " breadth and thickness at margin plate.....			Spacing.....		



## PILLARS AND DECKS.

[illegible]

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? 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.	
GARBOARD.	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	34 ✓	34 ✓	34 ✓	34 ✓		DOUBLE ✓	3/4 6R.R. ✓	DOUBLE ✓	3/4	2 5/8 ✓	STRAPPED.	
„ Dblg. (if any)	✓	✓				✓		✓				
Bottom Plating, No. of Strakes 2.....	62 1/2	32 ✓	30 ✓	30 ✓		SINGLE ✓	3/4 6R.R. ✓	DOUBLE ✓	3/4	2 5/8 ✓	LAPPED ✓	
Bilge Plating, No. of Strakes 1.....	52	32 ✓	30 ✓	30 ✓		"	"	" ✓	"	"	"	
Side Plating, No. of Strakes	55	32 ✓	30 ✓	30 ✓		"	"	" ✓	"	"	"	
Upper Deck, Sheer- strake in Wells.....	✓					✓		✓				
Upper Deck, Sheer- strake in Bridge ...	42 ✓	38 ✓	34 ✓	34 ✓		DOUBLE ✓	3/4 6R.R. ✓	DOUBLE ✓	3/4	2 5/8 ✓	STRAPPED.	
Strake below Sheer- strake in Wells.....	✓				Single approved. See plan	✓		✓				
Strake below Sheer- strake in Bridge ...	49 ✓	34 ✓	30 ✓	30 ✓		SINGLE ✓	3/4 6R.R. ✓	DOUBLE ✓	3/4	2 5/8 ✓	LAPPED.	
Forecastle Side Plating	✓					✓		✓				
Bridge Side Plating.....	✓					✓		✓				
Forecastle Side Plating	✓					✓		✓				

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 3 ✓

„ Deck next below 15 ✓

As per Rule 3

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	ROLLED	7" x 1 1/2"	✓	
STEM	"	7" x 1 1/2"	✓	
STERN FRAME	FORGING	5 1/2 x 2 1/2	T.S. FORSTER & SON.	✓
Propeller Post	"	5 1/2 x 2 1/2	✓	
Rudder	"	5 1/2 x 2 1/2	✓	
Speed of Vessel		NIT EX. 12 KNOTS.	✓	
RUDDER—Type		SINGLE PLATE.	✓	
A x D		10 1/4 x 8 1/2	✓	
Diam. of head		5 3/4"	✓	
Mainpiece at top pintle		5 3/4"	T.S. FORSTER & SON	✓
heel		1 1/2"	✓	
how constructed		FORGED & BUILT.	✓	
double or single plate coupling, vertical or horizontal		SINGLE	90 THK.	✓
		NONE		

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
<del>MIDSHIP</del>	BULKH'D, Upper 'tween decks	✓				
"	" Second "	✓				
"	" Third "	✓				
"	ON FRAME N <sup>o</sup> 37 Holds	✓	34-26	4x3x38-30	24" x 30"	✓
	COLLISION					
"	" (in Hold) " 50	✓	34-30	5x3x30 4x3x30	5	24 ✓
	AFTER PEAK					
"	" " " 5	✓	43-30	4x3x30	✓	24. ✓

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture). OPEN HEARTH PROCESS.  
PLATES:- CONSETT IRON CO. LD. APPLEBY- FRODINGHAM STEEL CO. LD. DORMAN, LONG & CO. LD.  
SECTIONS:- DORMAN, LONG & CO. LD. APPLEBY- FRODINGHAM STEEL CO. LD.  
 Has the Steel been tested as required by the Rules? YES.



EQUIPMENT No. ✓												LETTER ✓		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.			
55662	1st Bower	6	1	14	Stockless			8	12	2	0 ✓	6 ✓	Britannia (Cast steel head)	Richard	C. Heath 19-12-62 W.V. Norman
55664	2nd "	5	2	0	✓	"		7	16	1	0 ✓	5 1/4 ✓	" " "	Sykes Son	" " 19-12-62 "
	3rd "														
	Collective weight	11	3	14								11 1/4			
✓	Stream		✓												

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.	Tons.	qrs.	Supplied.	Per Rule.	Length.	Diam.	Length.	Diam.					Length.	Ins.		Length.	Ins.
66043	45	1 5/16	15 3/4	23 7/10	20-2-10		90	1 5/16			Stud Richard	C. Heath 27-10-42 W.V. Norman		TOWLINE					
66044	45	1 5/16	15 3/4	23 7/10	20-1-22						hook Sykes Son	" 27-10-42 "		HAWSERS & WARPS	60	5 1/2		60	5 1/2
															60	4		60	4
		Cir.																	
Iron Stream Chain or Steel Wire	✓																		

Steering Gear, Type (Power or hand) STEAM - DONKIN & CO. LD. ✓ Alternative Means of Steering TILLER WITH BLOCKS & TACKLE. ✓

Steering Chains (Size and Test) 7/8" DIAR - 9 1/8 TONS. ✓ Windlass STEAM - EMERSON, WALKER LTD. ✓ Boats 2 LIFEBOATS 16'0" x 6'0" x 2' 1/2" ✓

Ceiling in Holds, thickness and material GRATINGS ON FLOOR OF HOLD - 1 1/2" ✓ Cargo Battens, thickness, material and spacing ✓

Cargo Hatchways (Upper Deck) STEEL PLATES & ANGLES. ✓ Thickness of Hatches 3" ✓

Size of Hatchways TO HOLD AFT. 3'9" x 3'6" No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters NONE **FOR COCHRANE & SONS LTD**

Builder's Signature V. Gray 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. 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).

This vessel has been built in accordance with the approved plans, the Secretary's letters of various dates, the specification, and in general conformity with the Rules for the class contemplated. ✓

The materials and workmanship are good. ✓

Fore & after peaks and bilge feed tank tested to rule requirements and found in order. ✓

Decks, casings, watertight bulkheads & shell hoisted and found in order. ✓

Windlass steering arrangements tried under working conditions and found in order. ✓

A freeboard has been assigned, the marks verified & put in on the vessels sides. ✓

The amount of Entry Fee £ 2 : 0 : 0 Fees applied for, 13 MAY 1943

**FREEBOARD FEE** £ 4 - 0 - 0

Special Survey Fee £ 20 : 6 : 0

**SUPERVISION OF SPECIFICATION** £ 5 - 2 - 0

Travelling Expenses, if any £ 3 : 4 : 6

Received by me, \_\_\_\_\_ 19. \_\_\_\_\_

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

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

**"FOR TOWING SERVICES".**

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

Signature M. Macleod Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Hull.

Date of issue 9/6/43

Committee's Minute Glasgow

FRI. 28 MAY 1943

Character assigned + 100 A.1.2

For Towing Services

Lloyd's A&CP

(JAN 0337 03/10)

5-43

Lloyd's Register Foundation

008789-008795-0231 2R



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 following approved plans are forwarded herewith:—

- 1 Sections:—
- 2 Profile & deck plan
- 3 Bulkheads.
- 4 Stemframe & Rudder.
- 5 Boiler feed tank.
- 6 General Pumping Plan.

The following reports are enclosed herewith:—

Stemframe      Sld Rpt. No. 9350.  
Rudder, mainpiece.      "      "      9465.

Copy of completion & interim certificates, also steering chain test certificate are enclosed herewith.

#### PARTICULARS OF ELECTRIC WELDING (if employed)

Steel flat forward & aft. electrically welded at ship's sides.  
Approved electrodes used.

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

\* 100 A-1.

"FOR TOWING SERVICES"

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	3-3-24 inch. cup & pins	A.E.G.	7255.	17-9-42.
	2nd "	3-0-22 " " "	A.E.G.	7195.	3-9-42.
	3rd "				

#### PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 169084 Signal Letters ☒ Extreme Breadth over Belting 26-62' Over-all Length 103-5'  
(Circ. 1611) (Circ. 1703)

No. and Material of Decks. 1 DK (STL)

Parts of Bottom of Vessel coated with cement or approved composition Cemented

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,	<input checked="" type="checkbox"/>		Fore peak tank,	<u>7-04</u>	<u>155</u>
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>		After peak tank,	<input checked="" type="checkbox"/>	
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>		Deep tank, aft,	<input checked="" type="checkbox"/>	
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>		Deep tank, forward,	<input checked="" type="checkbox"/>	
Double bottom, forward, (BOILER FEED TANK)	<u>5-25</u>	<u>13</u>	Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3326

Date 2nd June 1942

Dates of Surveys held while building

1942:—Sept. 22-29. Oct. 2-9. 14. 19. 27-30. Nov. 3-9. 13. 18. 24. 27. Dec. 1-8. 11. 16. 22-29.  
1943:—Jan. 1-5. 15-22. 26-29. 4 Feb. 3-9. 18. 23. 26. March 2-5. 12. 16. 19. 22. 29. 31.  
April 1-6. 8. 12. 15. 16. 19. 21. 22. 23. 27-28. May 3.

Total No. of Visits 52