

RECEIVED

20 FEB 1945

IN D.O.

STEEL STEAMER ~~OR~~ MOTORSHIP.

20 FEB 1945

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 8th February 1945 Port of HULL No. 52761

Survey held at Selly and Hull Date First Survey 12th May 1944 Last Survey 6th February 1945

On the Steel single screw tug "EMPIRE BARBARA"

State Type Hull scantling State Type of Erections None

TONNAGE under Tonnage Deck ... 226.11

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

Total 226.11

Gross Tonnage 274.35

Register Tonnage Nil

CLASS 100 A-1 State if with freeboard as condition of Class No

"FOR TOWING SERVICES".

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) } L 105'0"

Breadth (greatest moulded) } B 26'6"

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) } D 13'0"

1st Longitudinal Number (L x D) = 1365

2nd Numeral L x (B + D) = 4147.5

Framing Depth "d" at middle of length. See Sec. 3 (1d) } 11.58

Proportions—Depth to Length—Uppermost continuous deck to top of keel } 8.1

Do. Long Bridge to top of keel

Draught Moulded 11'9 1/4

Built at Selly

Launched 5th October 1944 Yard No. 1292

Builders Bochane & Sons Ltd

Owners The Ministry of War Transport

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

Residence

Port of Registry Hull

If surveyed while building, afloat, or in dry dock while building and afloat.

REGISTERED DIMENSIONS.

	FEET
Length	105.2
Breadth	26.65
Depth	12.25

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	21	<input checked="" type="checkbox"/>	Bracket Floors, Frame		
" " from 3/8 length amidships to Collision bulkhead	21	<input checked="" type="checkbox"/>	" " Reversed Frame		
" " in peaks	21	<input checked="" type="checkbox"/>	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, <u>E or F</u>	5 3 .36	<input checked="" type="checkbox"/>	" " top Angles		
" IN BOILER ROOM & BUNKERS <u>F</u>	5 3 .42	<input checked="" type="checkbox"/>	" " bottom Angles		
" " Extends up to <u>UPPER DECK</u>		<input checked="" type="checkbox"/>	Side Girders, No. each side and thickness		
Reversed Frame Amidships, Angle	2 1/2 2 1/2 .30	<input checked="" type="checkbox"/>	Margin Plate depth (excl. of flange) and thickness		
" " Extends up to <u>ACROSS FLOORS</u>		<input checked="" type="checkbox"/>	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Depth of Framing Girder	5"	<input checked="" type="checkbox"/>	" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " Third " " " "			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " from 1/2 len. for'd. to 15% len. from Stem			INNER BOTTOM PLATING.		
" " in Peaks, Angle <u>E or F</u>	5 3 .36	<input checked="" type="checkbox"/>	Breadth and thickness of Middle Line Strake		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" - 5/4"	<input checked="" type="checkbox"/>	Thickness of remainder in Holds		
State if Frame Joggled	No.	<input checked="" type="checkbox"/>	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in B. & B. space and framing in Bunkers and Boiler Room?	Yes	<input checked="" type="checkbox"/>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?		<input checked="" type="checkbox"/>	BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?		<input checked="" type="checkbox"/>	Uppermost Continuous Deck, amidships <u>Wells</u> , Angle, <u>E or F</u>	5 3 .34	<input checked="" type="checkbox"/>
SINGLE BOTTOM.			" " HALF BEAMS IN WAY OF BOILER ROOM & BUNKERS <u>E or F</u>	4 3 .34	<input checked="" type="checkbox"/>
Floors, Depth and thickness at mid-line in Holds	17" x .30	<input checked="" type="checkbox"/>	Spacing	21	<input checked="" type="checkbox"/>
Height of Brackets at side above base line at toe of frame	NONE	<input checked="" type="checkbox"/>	Second Deck, amidships, Angle, [or]		
Middle Line Keelson, or Floors, Angle, <u>E or F</u>	12 x 36 <u>Wells</u>	<input checked="" type="checkbox"/>	Spacing		
" " Through Plate or Intercostal Plate		<input checked="" type="checkbox"/>	Third Deck, amidships, Angle, [or]		
" " Foundation Plate on Floors		<input checked="" type="checkbox"/>	Spacing		
" " Flat Plate Keel Angles		<input checked="" type="checkbox"/>	Fourth Deck, amidships, Angle, [or]		
Side Keelsons, No. each side	ONE	<input checked="" type="checkbox"/>	Spacing		
" " thickness of Intercostal Plate		<input checked="" type="checkbox"/>	Poop Deck, Angle, [or]		
" " Angle	5 4 .38	<input checked="" type="checkbox"/>	Spacing		
" " IN BOILER ROOM <u>F</u>	5 4 .48	<input checked="" type="checkbox"/>	Bridge Deck, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Forecastle Deck, Angle, [or]		
" " Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line					
" " breadth and thickness at margin plate					

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 ✓			
in 'tween Decks, Size and Spacing	2 1/2" DIAM. - 42" ✓			
in Holds				
Centre Line Bulkhead. Stiffeners and Spacing				
Plating, thickness of				
STRINGERS AND DECKS.				
Uppermost Continuous Deck. Stringer Plate, breadth and thickness in way of Bridge	60" x .35 ✓			
Angle in Wells	3 3 .35 ✓			
Thickness of Plating abreast Deck openings in way of Wells BOILER CASING	.35 ✓			
Thickness of Plating abreast Deck openings in way of BRIDGE ENGINE CASING	.30 ✓			
Thickness of Plating within line of openings	.30 - .25 ✓			
If Sheathed, material and thickness	✓			
Second Deck. Stringer Plate, breadth and thickness in Wells	✓			
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				
Thickness of Plating within line of openings				
If Sheathed, material and thickness				
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				
Plating, Sheathing, material and thickness				
Forecastle Deck. Stringer Plate, breadth and thickness				
Plating, Sheathing, material and thickness				

SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	RIVETING.						
	AMIDSHIPS.		FORWARD.	AFT.		EDGES. State if joggled? <i>Yes</i>	RIVETS.		NO. OF ROWS OF RIVETS.	BUTTS.		
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	Spacing cr. to cr.
GARBOARD	37 ✓	.34 ✓	.34 ✓	.34 ✓		DOUBLE ✓	3/4	6 R.R.	DOUBLE ✓	3/4	2 5/8	STRAPPED
Bottom Plating, No. of Strakes	57 ✓	.32 ✓	.30 ✓	.30 ✓		SINGLE ✓	3/4	6 R.	DOUBLE ✓	3/4	2 5/8	LAPPED
Bilge Plating, No. of Strakes	56 1/2 ✓	.34 ✓	.30 ✓	.30 ✓	.32 ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓
Upper Deck, Sheer-strake in Wells	42 ✓	.40 ✓	.35 ✓	.35 ✓		DOUBLE ✓	3/4	6 R.R.	DOUBLE ✓	3/4	2 5/8	STRAPPED
Upper Deck, Sheer-strake in Bridge	✓	✓				DOUBLE & SINGLE ✓	3/4	6 R.R. ETC.	DOUBLE ✓	3/4	2 5/8	LAPPED.
Poop 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	✓
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 1/4"	APPLEBY-FRODINGHAM	
STEM	"	7" x 1 1/4"	STEEL CO. LD.	
STERN FRAME	FORGED	5 1/2" x 2 1/2"	T.S. FORSTER	
	"	5 1/2" x 2 1/2"	& SONS LTD.	
Speed of Vessel			11 KNOTS. ✓	
RUDDER—Type			ORDINARY SINGLE PLATE TYPE. ✓	
A x D.			82.5 ✓	
Diam. of head			5 7/8 ✓	
Mainpiece at top pintle			5 1/2 ✓	
heel			4" ✓	
how constructed			FORGED & BUILT. ✓	
double or single plate coupling, vertical or horizontal			SINGLE PLATE ✓ HORIZONTAL. ✓	

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks									
Second									
ON FRAME NO. 13	26 ✓	4 x 3 x 30"	30" ✓						
W.T. PLAT TO UPPER DECK	41 ✓	34 x 26	4 x 3 x 38-30"	26" x 30" ✓	W.T. FLAT. ✓				
Hold									
COLLISION (in Hold)	55 ✓	34 x 26	3 x 3 x 38-30"	24" ✓	PEAK TANK TOP ✓				
AFTER PEAK	5 ✓	43 x 30	5 x 3 x 34	24" ✓	STEEL FLAT. ✓				

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

PLATES:— DORMAN, LONG & CO. LD. CONSETT IRON CO. LD.

SECTIONS:— APPLEBY-FRODINGHAM STEEL CO. LD. SKINNINGROVE IRON CO. LD. DORMAN, LONG & CO. LD. CONSETT IRON 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.						
59106	1st Bower	6	3	0	STOCKLESS			9	0	0	0	✓	6 1/2	BRITANNIC (CAST STEEL HEAD)	RSYKES & SON	CRADLEY HEATH	
59107	2nd "	6	1	18	"			8	12	2	0	✓	6	" " "	" "	" " "	
	3rd "				"									" " "	" "	" " "	
	Collective weight	13	0	18	"								12 1/2				
	Stream	✓			"												

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.	Stam-	Break-	Supplied	Per Rule	Length	Diam.	Length					Ins.	Length		Ins.	Length	Ins.
69149	75 1/2	1	18	27	40	2	12	90	1	STUD LINK CHAIN	RICHARD SYKES & SON	CRADLEY HEATH	TOWLINE	90	12	MANILA	60	6	
69150	75 1/2	1	18	27	40	2	10			CABLE	" "	" "	HAWERS & WARPS	2090	5	"	60	6	
										" "	" "	" "	" "	90	4	"	60	4 1/2	
										" "	" "	" "	" "	120	2 1/2	"			

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

Steering Chains (Size and Test) 7/8" DIAM. 9 1/8 TONS Windlass STEAM-EMERSON, WALKER LD. Boats 2 LIFEBOATS

Ceiling in Holds, thickness and material WOOD GRATINGS - 1/2" PINE. Cargo Battens, thickness, material and spacing NONE

Cargo Hatchways.—(Upper Deck) ✓ Thickness of Hatches ✓

Size of Hatchways No. 1 (Fwd.) ✓ No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters ✓

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 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).

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. ✓ The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans. ✓

The materials and workmanship are good. ✓

Fore & after peak tanks, boiler feed tanks and oil fuel tanks have been tested to rule requirements and found in order. ✓ Flash point of oil fuel above 150° F. ✓

Oil fuel tanks are situated between the engine & boiler spaces. ✓

Decks, casings, watertight bulkheads, hatchways etc. have been tested and found in order. ✓

Windlass & steering arrangements tried under working conditions and found satisfactory. ✓

The supervision of the specification has been carried out. ✓

A freeboard has been assigned, the marks cut in on the vessel's sides and verified. ✓

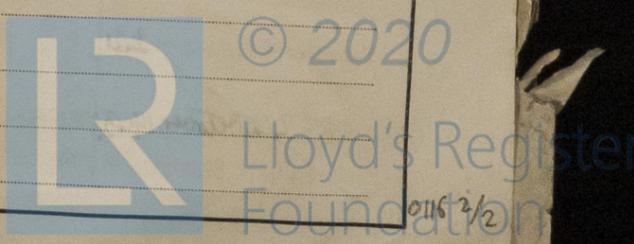
The amount of Entry Fee.....	£ 3 : 0 : 0	Fees applied for, 19 FEB 1945	(Special notations, where part of class, to be stated.)
FREEBOARD	£ 4 : 0 : 0		
Special Survey Fee.....	£ 27 : 8 : 0	Received by me, 19	I am of opinion the Vessel should be Classed <u>*100 A-1</u>
SUPERVISION OF SPECIFICATION	£ 6 : 17 : 0		
Travelling Expenses, if any.....	£ 3 : 8 : 6		

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

Certificate S sent to Hull Date of issue 4/4/45 Signature M. Maclerd
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 2 MAR 1945

Character assigned +100 A1 For Towing Services
Fitted for oil fuel 2.45 F.P. above 150° F
Lloyd's A.C.P.
+LMC 2.45 O.G.



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 approved plans are being retained for reference in dealing with sister vessels under construction.

The following reports are enclosed herewith:—

Stemframe Hull Rpt. No. 961.
 Rudderframe & rudder head. " " " 2971.
 Mizzen Mast & Stents Surv. " " C.1779.

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

This vessel is a sister ship to Cochrane & Sons Ltd. Yard No 1291 - "EMPIRE JENNY" - Hull Rpt. No 5272.

PARTICULARS OF ELECTRIC WELDING (if employed)

W.T. plates 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	2nd "	3rd "			
	3-3-21	3-3-26		wel. cup & pins.	A.E.G.	2083. 21.9.44
				" " "	A.E.G.	2058. 18.9.44.

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. 180920 Signal Letters Extreme Breadth over Belting 28.4 ft. (Circ. 1611) Over-all Length 111.7 ft. (Circ. 1703)

No. and Material of Decks 1 DK (str)

Parts of Bottom of Vessel coated with cement or approved composition Bottom 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.	Water Capacity.	Where Fitted.		Length.	Water Capacity.
		Feet.	Tons.			Feet.	Tons.
Double bottom, aft,		/		Fore peak tank,		8.4"	5 ✓
Double bottom, under Engines and Boilers,				After peak tank,		9.2"	20 ✓
Double bottom, if under Engines only,				Deep tank, aft,			
Double bottom, if under Boilers only,				Deep tank, forward,			
Double bottom, forward,				Other tanks, if fitted,			
Total length (if continuous) and Capacity				(If necessary furnish further information by sketch.)			

Order for Special Survey No. 2421
 Date 16th October 1943

Dates of Surveys held while building

1944: May 12. 15. 18. 22. 25. 31. June 7. 13. 16. 20. 23. 26. 29. July 3. 5. 10. 11. 18. 20. Aug. 4. 14. 16. 18. 23. 25. 28. 30. Sept. 13. 20. 28. 30. Oct. 11. 13. 19. 24. 26. 30. 31. Nov. 6. 9. 13. 17. 24. 28. Dec. 13. 15. 1945: Jan. 2. 8. 15. 23. 26. 29. Feb. 1. 2. 6.

Total No. of Visits 56

