

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 (State if Machinery fitted with or without Tonnage Openings) *Steel single screw tug "EMPIRE BARBARA"*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *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) *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 ✓		Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	21 ✓		" " Reversed Frame		
" " in peaks	21 ✓		" " Vertical Struts		
SIDE FRAMING. ✓			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, <i>E or F</i>	5 3 .36 ✓		" " top Angles		
" IN BOILER ROOM & BUNKERS <i>✓</i>	5 3 .42 ✓		" " bottom Angles		
" Extends up to	UPPER DECK ✓		Side Girders, No. each side and thickness		
Reversed Frame Amidships, Angle	2 1/2 2 1/2 .30 ✓		Margin Plate depth (excl. of flange) and thickness		
" Extends up to	ACROSS FLOORS ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Depth of Framing Girder	5" ✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
Frames in Uppermost Continuous 'tween Decks, Angle, <i>[or]</i>			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, <i>[or]</i>			" " 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 <i>E or F</i>	5 3 .36 ✓		Breadth and thickness of Middle Line Strake		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" - 5/4" ✓		Thickness of remainder in Holds		
State if Frame Joggled	No. ✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in B. & D. space and framing in Bunkers and Boiler Room? <i>Yes. ✓</i>		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APPROVED ✓		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?			Uppermost Continuous Deck, amidships in <i>Wells</i> , Angle, <i>E or F</i>	5 3 .34 ✓	
SINGLE BOTTOM.			" HALF BEAM'S IN WAY OF BOILER ROOM & BUNKERS <i>E or F</i>	4 3 .34 ✓	
Floors, Depth and thickness at mid-line in Holds	17" x 30 ✓		Spacing	21 ✓	
Height of Brackets at side above base line at toe of frame	NONE ✓		Second Deck, amidships, Angle, <i>[or]</i>		
Middle Line Keelson, or Floors, Angle, <i>[or]</i>	12 x 14 x 36 <i>46</i> ✓		Spacing		
" " Through Plate or Intercostal Plate	✓		Third Deck, amidships, Angle, <i>[or]</i>		
" " Foundation Plate on Floors	✓		Spacing		
" " Flat Plate Keel Angles	✓		Fourth Deck, amidships, Angle, <i>[or]</i>		
Side Keelsons, No. each side	ONE ✓		Spacing		
" thickness of Intercostal Plate	✓		Poop Deck, Angle, <i>[or]</i>		
" Angle	5 4 .38 ✓		Spacing		
" IN BOILER ROOM <i>✓</i>	5 4 .48 ✓		Bridge Deck, Angle, <i>[or]</i>		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Forecastle Deck, Angle, <i>[or]</i>		
" 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	✓		Stringer Plate, breadth and thickness in way of Bridge			
" in 'tween Decks, Size and Spacing	2 1/2" DIAM. - 42"	✓		Thickness of Plating abreast Deck openings in way of Wells			
" " " " " "				Thickness of Plating abreast Deck openings in way of Bridge			
" in Holds				Thickness of Plating within line of openings			
" " " " " "				If Sheathed, material and thickness			
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing				Stringer Plate, breadth and thickness			
Plating, thickness of				If Plated, state thickness			
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness			
Stringer Plate, breadth and thickness in Wells	60" x .35	✓		If Plated, state thickness			
" " " " in way of Bridge		✓		Poop Deck.			
" Angle in Wells	3 3 .35	✓		Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings in way of Wells	.35	✓		Plating, Sheathing, material and thickness			
Thickness of Plating abreast Deck openings in way of Bridge	.30	✓		Bridge Deck.			
Thickness of Plating within line of openings	.30 - .25	✓		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		✓		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.		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.
GARBOARD	37	.34	.34	.34		DOUBLE	3/4	6 R.R.	DOUBLE	3/4	2 5/8	STRAPPED
" Dblg. (if any)	✓	✓				✓						
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	"	"	"	"	"	"	"
Side Plating, No. of Strakes	✓	✓				✓						
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	✓	✓				✓						
Strake below Sheer-strake in Wells	55 1/2	.35	.30	.30		DOUBLE & SINGLE	3/4	6 R. ETC.	DOUBLE	3/4	2 5/8	LAPPED
Strake below Sheer-strake in Bridge												
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 1

As per Rule 3

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.	
		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"	24" & 30"	W.T. PLAT		
" " Holds	34	34 x 26	3 x 3 x 38-30"	24"	PEAK TANK TOP		
COLLISION (in Hold)	55	34 x 26	3 x 3 x 38-30"	24"	STEEL PLAT.		
AFTER PEAK	5	43 x 30	4 x 3 x 30"	24"			

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 { Propeller Post	FORGED	5 1/2 x 2 1/2"	T.S. FORSTER	
{ Rudder	"	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 5/8"	
" Mainpiece at top pintle			5 1/2"	
" " heel			4"	
" how constructed			FORGED & BUILT.	
" double or single plate coupling, vertical or horizontal			SINGLE PLATE	
			HORIZONTAL.	

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:—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.	Cwts.				
59106	1st Bower	6	3	0 ✓	STOCKLESS			9	0	0	0 ✓	6 1/2 ✓	BRITANNIC (CAST STEEL HEAD)	RYKES & SON	CRADLEY HEATH.	
59107	2nd "	6	1	18 ✓	"			8	12	2	0 ✓	6 ✓	" " "	" "	11.12.44. W.V. NORMAN.	
	3rd "												" " "	" "	" " "	
	Collective weight	13	0	18 ✓												
✓	Stream		✓									12 1/2 ✓				

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.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Fathoms.	Ins.						Fathoms.	Ins.		Fathoms.	Ins.
69149	75 1/2	1	18	27	40	2	12	✓		STUD LINK CHAIN	RICHARD CRADLEY HEATH	6.12.44. W.V. NORMAN		TOWLINE	90	12	MAULA		
69150	75 1/2	1	18	27	40	2	10	✓		CABLE	RYKES & SON	" " "		HAWSERS & WARPS	2090	5		60	6
Iron Stream Chain or Steel Wire	✓	✓						✓	✓	"	"	" " "		"	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 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 &c. 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
FREEBOARD " £ 4 : 0 : 0
Special Survey Fee..... £ 27 : 8 : 0
SUPERVISION OF SPECIFICATION £ 6 : 17 : 0
Travelling Expenses, if any..... £ 3 : 8 : 6

Fees applied for, 19 FEB 1945

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

Certificate sent to Hull

Date of issue

4/4/45

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.



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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.)

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

The following reports are enclosed herewith:—

Stemframe H.R. Rpt. No. 961.
Rudderframe & rudder head. " " 2971.
Machinery Mounts & Stents Surs. " " C. 1779.

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

This vessel is a sister ship to Bocheane & 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	3-3-21	incl. cup & pins.	A.E.G.	2083.	21.9.44
2nd "	3-3-26	" " "	A.E.G.	2058	18.9.44.
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. 180320. Signal Letters ☒ Extreme Breadth over Belting 28.4 ft. ☒ Over-all Length 111.7 ft. ☒
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 1 BK (SM)

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. 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. 11. 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