

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 11th August 1945. Port of Hull. No. 53089.

Survey held at Selly and Hill. Date First Survey 6th October 1944 Last Survey 8th August 1945

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single screw Steam tug "EMPIRE FLORA".

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

TONNAGE under } 262.17  
Tonnage Deck ... }

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

Total 262.17

Gross Tonnage ..... 292.15

Register Tonnage Nil

**REGISTERED DIMENSIONS.**

FEET

116'

27.6

12.7'

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CLASS  100 A.1.

"FOR TOWING SERVICES"

Length from fore part of stem to after part of stern } L 115'-0"  
post on summer L.W.L. See Sec. 3 (1a)

Breadth (greatest moulded) 27'-6" B 27'-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'-6"

1st Longitudinal Number ( $L \times D$ ).....= 1552.5

2nd Numeral  $L \times (B + D)$  ..... = 4715 ✓

Framing Depth "d," at middle of length. See } 13-5'

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... } 8.5' ✓

Do. Long Bridge to }  
top of keel }

Draught Moulded ..... 12'-2"

Built at Selly

Launched 16th March 1945 Yard No. 1297

Builders Bochane & Sons Ltd

Owners Ministry of War Transport.

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

Residence London

Port of Registry.....Hull

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

Buling construction

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 .....		
" " IN BOILER SPACE	21½ ✓		" " Reversed Frame.....		
" " from ⅓ length amidships to Collision bulkhead.....	18 ✓		" " Vertical Struts .....		
" " FORE PEAK } in peaks .....	18 ✓		Centre Girder, depth and thickness amidships		
" " AFTER PEAK }	21 ✓		" " top Angles .....		
DE FRAMING.			" " bottom Angles.....		
Frame Amidships, Angle, E or F	5 3 .30 ✓		Side Girders, No. each side and thickness.....		
" IN BOILER ROOM	5 3 .36 ✓		Margin Plate depth (excl. of flange) and thickness .....		
" Extends up to.....	UPPER DECK ✓		" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem .....		
Reversed Frame Amidships, Angle	3 2½ .30 ✓		" " Vertical Angle to Tank side Bracket from forward ¼ len. from stem to Panting Area Gussets, spacing and scantling abaft ¼ len. from stem.....		
" IN BOILER ROOM	3 2½ .40 ✓		" " Gussets, spacing and scantling from forward ¼ len. from stem to Panting Area .....		
" Extends up to.....	ACROSS FLOORS ✓		Tank Side Brackets, height above base line at toe of Frame and thickness		
Depth of Framing Girder.....	5" ✓		INNER BOTTOM PLATING.		
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ] .....	/		Breadth and thickness of Middle Line Strake..		
" Second 'tween Decks, Angle, [ or ] .....	/		Thickness of remainder in Holds .....		
" Third " " " "	/		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?.....	4/00 ✓	
" from ½ len. for'd. to 15% len. from Stem .....	/		BEAMS.		
" in Peaks, Angle or [ .....	5 3 .30 ✓		Uppermost Continuous Deck, amidships in Walls, Angle, E or F	5 3 .30 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	¾" - 5¼"		" " in way of Engine, Angle, E or F	6 3 .30 ✓	
State if Frame Joggled.....	No. ✓		" " Spacing HALF BEAMS IN ENG. RM	21 4 3 .30 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	AS APPROVED		Second Deck, amidships, Angle, [ or ] .....	4 3 .34 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	/		Spacing .....		
SINGLE BOTTOM.			Third Deck, amidships, Angle, [ or ] .....		
Floors, Depth and thickness at mid-line in Hold.....	18 x .30 ✓		Spacing.....		
" IN BOILER ROOM	.40 ✓		Fourth Deck, amidships, Angle, [ or ] .....		
Height of Brackets at side above base line at toe of frame.....	NONE ✓		Spacing.....		
Middle Line Keelson, on Floors, Angles, [ or ] .....	12 x 4 x 4 x 36 lb ✓		Poop Deck, Angle, [ or ] .....		
" Through Plate or Inter-costal Plate .....	/		Spacing.....		
" Foundation Plate on Floors .....	/		Bridge Deck, Angle, [ or ] .....		
" Flat Plate Keel Angles	/		Spacing.....		
BILGE			Forecastle Deck, Angle, [ or ] .....		
Side Keelsons, No. each side.....	ONE ✓		Spacing.....		
" thickness of Intercostal Plate...	✓				
" Angle	5 4 .40 ✓				
" IN BOILER ROOM	5 4 .50 ✓				
DOUBLE BOTTOM.					
Solid Floors, thickness and spacing .....	/				
" Are Frame and Reversed Frame joggled? .....	/				
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" DIAR - 4'6"	✓		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 IN WAY OF COILER ROOM	35	✓		Plating, Sheathing, material and thickness ...			
Thickness of Plating abreast Deck openings in way of Bridge ENGINE ROOM	30	✓		Bridge Deck.			
Thickness of Plating within line of openings...	25	✓		Stringer Plate, breadth and thickness .....			
If Sheathed, material and thickness .....	5" x 2 1/2" DOUGLAS FIR	✓		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.

[illegible]

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<u>W.T. BULKDS.</u>	<u>O.T. BULKDS.</u>
Extending to Upper Deck (Sec. 3 c)	3 ✓	2
„ Deck next below	3	
As per Rule	3	

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	FLAT BAR	7" x 1 1/4"	APPLEBY-PROD. STEEL CO.	
STEM	" "	7" x 1 1/4"	" "	" "
STERN FRAME	Propeller Post Rudder	FORGING 5 1/2" x 3" 10-45	T.S. FORSTER & SONS LTD.	
Speed of Vessel		12 KNOTS		
RUDDER—Type		DOUBLE PLATE RUDDER		
" A x D.		111-G		
" Diam. of head		6"	T.S. FORSTER &	
" Mainpiece at top pintle		6 1/2" x 4 1/2"	SONS LTD.	
" " heel		3 1/2" x 4 1/2"		
" how constructed		FORGED & BUILT		
" double or single plate coupling, vertical or horizontal		DOUBLE 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 ✓  
STEEL PLATES:- APPLEGY-FRODINGHAM STEEL CO. LD. DORMAN, LONG & CO. LD. CONSETT IRON CO. LD.  
SECTIONS:- " " " " " " " " " SKINNINGGROVE 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 632 53		Description of Anchor.	Makers.		Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.					
59765	1st Bower	7	1	0	STOCKLESS	✓	9	9	1	14	7 1/4 ✓	BRITANNIC (CAST STEEL HEAD)	R. SYKES & SON	CRADLEY HEATH	10-4-45	W.V. NORMAN	
59768	2nd "	6	1	22	"	✓	8	15	0	0	6 1/2 ✓	" " "	" "	" "	" "	" "	
	3rd "																
	Collective weight	13	2	22	✓						13 3/4 ✓						
✓	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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.		Length.	Diam.					Length.	Ins.	Tons.	Length.	Ins.	
69603	150	1 1/16	20 3/10	30 4/10	88-2-6	60 3/4	105	150	1 1/16	STUD LINK	R. SYKES & SON	CRADLEY HEATH	TOWLINE	20 100	14	MANILA	60	6	✓
														60	6				
														30 60	4	44-9	60	5	✓
														60	5	70-9			
														20 30	4	44-9			
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" DIAM. 9 1/8 TONS Windlass STEAM-EMERSON, WALKER LD. Boats 2 LIFEBOATS 19'0"

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

Cargo Hatchways.—(Upper Deck) NONE Thickness of Hatches ✓

Size of Hatchway AFT 5'0" x 3'0" No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters None. Builder's Signature FOR COCHRANE & SONS, LTD. J. 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 tank, water ballast tank 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 and boiler spaces.*

*Decks, casings, watertight bulkheads, hatchways & shell clear of tanks inspected and found in order.*

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

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

*The supervision of the specification has been carried out.*

The amount of Entry Fee.....	£ 3 : 0 : 0	Fees applied for, AUG 1945
FREEBOARD FEE	£ 4 : 0 : 0	
Special Survey Fee.....	£ 29 : 4 : 0	Received by me, 19
SUPERVISION OF SPECIFICATION	£ 7 : 6 : 0	
Travelling Expenses, if any.....	£ 5 : 2 : 3	

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

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

FOR TOWING SERVICES.

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

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

Certificate to be sent to Null.

Date of issue 30/11/45

Committee's Minute

Character assigned

+100A1 "For Towing Services"

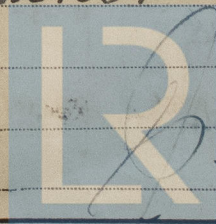
Lloyd's A.C.P.

Fitted for oil fuel 8.45 F.P. above 150°F

LMC (P) 8.45

F.D. 0.6.

White Hull  
mod



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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:-

Stem frame  
Rudder head + mainpiece. " " " 3230.

Copy of completion & interim certificates (H. + M), and steering chain test certificate are enclosed.

PARTICULARS OF ELECTRIC WELDING (if employed)

W.T. flats 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 A1. FOR TOWING SERVICES.

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

1st Bower	H-1-11 incl. cup & pin	A.E.G.	1796	20.7.44.
2nd "	3-3-20 " " "	T.G.	2176	4.10.44.
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. 180438 Signal Letters Extreme Breadth over Belting 29.35 ft. Over-all Length 123.54 ft. (Circ. 1611) (Circ. 1703)

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

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

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,	10'6"	5 1/2
Double bottom, under Engines and Boilers,			After peak tank,	10'6"	27
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward, BALLAST TANK FORWARD	6'0"	12 1/2
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. 3448

Date 3rd April 1944

Dates of Surveys held while building

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

Total No. of Visits 72