

STEEL STEAMER OR MOTORSHIP.

(TUG)

12 NOV 1945

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YesState if Report is sent on the Machinery of the Vessel YesDate of completion of report 20th October 1945 Port of Hull No. 53172Survey held at Selly and Hull Date First Survey 30th October 1944 Last Survey 15th October 1945On the (State if Machinery fitted As per Single screw steam tug "EMPIRE CLARA" AIRMAN)State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Hull scantling State Type of Erections NoneTONNAGE under Tonnage Deck ... 262.17Do. of space or spaces between Tonnage Dk. and Upper Dk. ✓Total 262.17Gross Tonnage 292.15Register Tonnage Nil

REGISTERED DIMENSIONS.

FEET

Length 116'Breadth 27.6'Depth 12.7'CLASS *100 A.I.

"FOR TOWING SERVICES"

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 115'0"Breadth (greatest moulded) 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) 13'6"1st Longitudinal Number (L x D) 1552.52nd Numeral L x (B + D) 4715Framing Depth "d," at middle of length. See Sec. 3 (1d) 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"State if with freeboard as condition of Class No.Built at SellyLaunched 28th April 1945 Yard No. 1300Builders Bocheau & Sons LtdOwners Ministry of War TransportManagers United Towing Co. Ltd - Hull

(Where necessary to be entered in Reg. Book)

Residence LondonPort of Registry HullIf surveyed while building, afloat, or in dry dock and during 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	21 1/2 ✓		" " Reversed Frame.....		
" " " from 1/2 length amidships to Collision bulkhead.....	18 ✓		" " Vertical Struts		
" " " in peaks FORE PEAK	18 ✓		Centre Girder, depth and thickness amidships		
" " " AFTER PEAK	21 ✓		" " top Angles		
SIDE 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		
Reversed Frame Amidships, Angle	3 2 1/2 30 ✓		" " Bracket abaft 1/4 len. from stem		
" " IN BOILER ROOM	3 2 1/2 40 ✓		" " Vertical Angle to Tank side		
" " Extends up to.....	ACROSS FLOORS		" " Bracket from forward 1/4 len. from stem to Panting Area		
Depth of Framing Girder.....	5" ✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....		
Frames in Uppermost Continuous 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " Second 'tween Decks, Angle, E or F			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " Third			INNER BOTTOM PLATING.		
" " from 1/2 len. for'd. to 15% len. from Stem			Breadth and thickness of Middle Line Strake.....		
" " in Peaks, Angle or F	5 3 30 ✓		Thickness of remainder in Holds		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" - 5 1/4" ✓		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. ✓	
State if Frame Joggled.....	No. ✓		BEAMS.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APPROVED		Uppermost Continuous Deck, amidships in	5 3 30 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?			Wells, Angle, E or F		
SINGLE BOTTOM.			OIL FUEL BUNKERS in way of Deck, Angle, E or F	6 3 30 ✓	
Floors, Depth and thickness at mid-line in	18" x 30 ✓		" " Spacing	21 ✓	
Holds IN BOILER ROOM	40 ✓		" " HALF BEAMS IN ENG. RM	4 3 30 ✓	
Height of Brackets at side above base line at toe of frame.....	NONE ✓		Second Deck, amidships, Angle, E or F	4 3 34 ✓	
Middle Line Keelson, on Floors, Angle, E or F	12 x 4 x 4 x 36 LBS. ✓		" " Spacing		
" " Through Plate or Inter-costal Plate			Third Deck, amidships, Angle, E or F		
" " Foundation Plate on Floors			" " Spacing.....		
" " Flat Plate Keel Angles			Fourth Deck, amidships, Angle, E or F		
BILGE			" " Spacing.....		
Side Keelsons, No. each side.....	ONE ✓		Poop Deck, Angle, E or F		
" " thickness of Inter-costal Plate.....	✓		" " Spacing.....		
" " Angle	5 4 40 ✓		Bridge Deck, Angle, E or F		
" " IN BOILER ROOM	5 4 50 ✓		" " Spacing.....		
DOUBLE BOTTOM.			Forecastle Deck, Angle, E or F		
Solid Floors, thickness and spacing			" " Spacing.....		
" " Are Frame and Reversed Frame joggled?					
Bracket Floors, breadth and thickness at middle line					
" " breadth and thickness at margin plate.....					

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 joggled? <i>Yes.</i>	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.....	37½	35 ✓	35 ✓	35 ✓		DOUBLE ✓	¾	6 R.R.	DOUBLE ✓	¾	2 7/8	STRAPPED ✓	
„ Dblg. (if any)	✓	✓				✓			✓				
Bottom Plating, No. of } Strakes <i>2</i>	55½	34 ✓	30 ✓	30 ✓		SINGLE ✓	¾	6 R.	DOUBLE	¾	2 5/8 ✓	LAPPED	
Bilge Plating, No. of } Strakes	61	34 ✓	30 ✓	30 ✓		"	"	"	"	"	"	"	
Side Plating, No. of } Strakes	62	34 ✓	30 ✓	30 ✓		"	"	"	"	"	"	"	
Upper Deck, Sheer- strake in Wells.....	✓	✓											
Upper Deck, Sheer- strake in Bridge ...	42½	40 ✓	35 ✓	35 ✓		DOUBLE ✓	¾	6 R.R.	DOUBLE	¾	2 7/8	STRAPPED	
Strake below Sheer- strake in Wells.....	✓					✓			✓				
Strake below Sheer- strake in Bridge ...	53½	36 ✓	30 ✓	30 ✓		SINGLE	¾	6 R.	DOUBLE	¾	2 5/8	LAPPED	
Poop Side Plating.....	✓					✓			✓				
Bridge Side Plating.....	✓					✓			✓				
Forecastle Side Plating	✓					✓			✓				

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<u>W.T. BHDS.</u>	<u>O.T. BHDS.</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-FROD.	STEEL CO. LD.
STEM	" "	7" x 1 1/4"	"	" "
STERN FRAME	{ Propeller Post FORGING	7" x 3"	T.S. FORSTER & SONS LD.	
	{ Rudder "	" 5 1/2 x 3	"	" "
Speed of Vessel		12 KNOTS		
RUDDER—Type		DOUBLE PLATE		
" A x D.....		111.6		
" Diam. of head		6"		
" Mainpiece at top pintle	FORGING	6 1/2" x 4 1/2"	T.S. FORSTER	
" " heel		3 1/2" x 4 1/2"	& SONS LTD.	
" how constructed		FORGED & BUILT.		
" double or single plate		DOUBLE		
" coupling, vertical or		HORIZONTAL		
" horizontal				

STIFFENERS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper 'tween decks					
Q.T.	ON FRAME NO 23	34-30	6x3x30 } 5x3x30 } F	24"	12"x35PL 5x3x35 F	
"	Second " "	34-30	6x3x30 } 5x3x30 } F	24"	12"x35PL 5x3x35 F	
"	Third " "	34-30	6x3x30 } 5x3x30 } F	24"	12"x35PL 5x3x35 F	
W.T.	Holds	44-34-26	5x3x30 } 4x3x30 } F	24" 30"	W.T. FLAT	
COLLISION	(in Hold)	62-34-26	3x3x40-30 F	24"	"	
AFTER PEAK	"	6-43-30	5x3x30 } 4x3x30 } F	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.

STEEL PLATES:- APPLEYBY-FRODINGHAM STEEL CO. LD. DORMAN LONG & CO. LD. CONSETT IRON CO. LD.

SECTIONS:- DORMAN, LONG & CO. LD. SKINNINGROVE 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.						
60154	1st Bower	7	0	7	STOCKLESS				9	7	0	21	✓	7 1/4 ✓	BRITANNIC (CAST STEEL HEAD)		R SYKES & SON	CRADLEY HEATH 18-6-45 W.V. NORMAN
60156	2nd "	6	3	10	"				9	2	2	0	✓	6 1/2 ✓	" " "		" "	" " "
	3rd "																	
✓	Collective weight	<u>13</u>	<u>3</u>	<u>17</u>										<u>13 3/4</u> ✓				
	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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.	
	Fathoms	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms	Ins.					Fathoms	Ins.	Tons.	Fathoms	Ins.	
69843	150	1 1/16	20 3/10	30 4/10	90-3-19	60 3/4	105	1 1/2	STUD LINK	R. SYKES & SON	CRADLEY HEATH 18.6.45 W.V. NORMAN	TOWLINE	20 100	1 1/4	MANILA	60	6	
												HAWSEERS & WARPS	60	6	"			
													30 60	1 1/4	44.9	60	5	
													20 30	1 1/4	44.9			
													60	5	70.9			

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 CO. ✓ 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} No. 1 (Fwd.) 5'0" x 3'0" No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of **Shifting Beams** } ✓
and/or **Fore and Afters** }

Builder's Signature _____

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 workmanships 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 ader. Flash point of oil fuel about 150°F. ✓

oil fuel tanks are situated between the engine + boiler spaces. ✓

Decks, casings, watertight bulkheads, hatchways + shell plating clear of tanks hoisted and found in order. ✓

Supervision of the specification has been carried out.

Windlass and 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 amount of Entry Fee.....	£ 3 : 0 : 0	} Fees applied for, 19 NOV 1945
FREESBOARD FEE	£ 4 : 0 : 0	
Special Survey Fee.....	£ 29 : 4 : 0	} Received by me, 19
SUPERVISION OF SPECIFICATION	£ 7 : 6 : 0	
<i>Travelling Expenses, if any</i>	£ 4 : 12 : 11	

(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

Signature

W. MacLeod
Surveyor to Lloyd's Register of Shipping.

Certificate ~~to~~ be sent to Hull

Date of issue

FRI. 30 NOV 1945

Committee's Minute

Character assigned

+100A1 "For Towing Services"

Lloyd's A+C.P. Fitted for oil fuel 10.45 F.P. above 150°F

LMC(R) 10,45

FD. O.G.

White Gls

The Surveyors are requested not to write on or below the Committee's Minutes

0200^{2/2}

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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 Sld. Rpt. No 3184.
Rudder frame + rudder head. " " " 4725

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

This vessel is a sister ship to 'EMPIRE SHEILA' - Hull Rpt. No 53171.

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 A.I.

FOR TOWING SERVICES

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

1st Bower	4-1-0 incl cups & pins.	A.E.G.	4954.	30.4.45
2nd "	4-1-0 " " "	A.E.G.	4965.	30.4.45.
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. 180453 Signal Letters Extreme Breadth over Belting 29.35 ft. Over-all Length 123.5 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 3451

Date 9th Sept. 1944.

Dates of Surveys held while building

1944:— Oct. 30. 31. Nov. 2. 6. 9. 13. 17. 24. 28. 29. Dec. 9. 13. 15. 20. 22. 29. 1945:— Jan. 5. 10. 13. Jan. 17. 19. 25. Feb. 5. 9. 15. 19. 22. 26. Mar. 1. 5. 8. 13. 16. 20. 28. 30. April 3. 6. 9. 12. 17. 19. 23. April 26. 28. May. 1. 7. 11. 18. 28. 31. June 20. 22. 26. July. 2. 18. Aug. 27. 30. Sept. 6. 7. 17. 19. Sept. 25. 26. 27. Oct. 1. 4. 12. 15

Total No. of Visits 69.