

STEEL STEAMER OR MOTORSHIP.

9-OCT 1942

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 *12th September 42.* Port of *HULL* No. *51748.*Survey held at *Selly and Hull* Date First Survey *27th January 1942* Last Survey *8th September 1942*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Steel single screw tug "EMPIRE SAM"*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling* State Type of Erections *None*TONNAGE under Tonnage Deck ... *226-1*Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Total *226-1*Gross Tonnage *274-49*Register Tonnage *468*CLASS *100 A-1*
"FOR TOWING SERVICES"State if with freeboard as condition of Class *No*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 26-5*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 *1st June 1942* Yard No. *1250*Builders *Messrs Bocheane & Sons Ltd*Owners *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 *During construction*

REGISTERED DIMENSIONS.

FEET

Length *105-2*

Breadth *26-65*

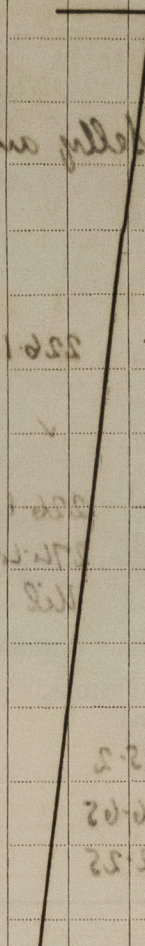
Depth *12-25*

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-F</i>	5 3 36	✓	" " top Angles		
" " <i>in Boiler room & bunkers</i>	5 3 42	✓	" " bottom Angles		
" " Extends up to <i>Upper deck</i>		✓	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 <i>across floors</i>		✓	" " 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>[E-F]</i>			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, <i>[E-F]</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-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 E & B. 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?	<i>AS APPROVED</i>	✓	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>Walls, Angle, E-F</i>	5 3 34	5" x 3" x 30"
SINGLE BOTTOM.			" " in way of Bridge, Angle, <i>E-F</i>	4 3 34	4" x 3" x 30"
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	<i>None</i>	✓	Second Deck, amidships, Angle, <i>[E-F]</i>		
Middle Line Keelson, on Floors, Angle, <i>[E-F]</i>	12" x 4" x 36 lbs	✓	Spacing		
" " Through Plate or Inter-costal Plate	✓		Third Deck, amidships, Angle, <i>[E-F]</i>		
" " Foundation Plate on Floors	✓		Spacing		
" " Flat Plate Keel Angles	✓		Fourth Deck, amidships, Angle, <i>[E-F]</i>		
(BILGE) Side Keelsons, No. each side	<i>One</i>	✓	Spacing		
" " thickness of Inter-costal Plate	✓		Poop Deck, Angle, <i>[E-F]</i>		
" " Angle	5 4 38	✓	Spacing		
" " <i>in Boiler room</i>	5 4 48	✓	Bridge Deck, Angle, <i>[E-F]</i>		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Forecastle Deck, Angle, <i>[E-F]</i>		
Are Frame and Reversed Frame joggled?			Spacing		
Bracket Floors, breadth and thickness at middle line					
" " breadth and thickness at margin plate					

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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		
ACCOMMODATION FORWARD in 'ween 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. Stiffeners and Spacing	✓		Third Deck. Stringer Plate, breadth and thickness.....		
Plating, thickness of	✓		If Plated, state thickness		
STRINGERS AND DECKS.			Fourth Deck. Stringer Plate, breadth and thickness.....		
Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	60 x .35 ✓		If Plated, state thickness.....		
" " " " in way of Bridge	✓		Poop Deck. Stringer Plate, breadth and thickness.....		
" Angle in Wells	3 3 .35 ✓		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings } in way of Wells ENGINE CASING.....	.30		Bridge Deck. Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings } in way of Bridge BOILER CASING.....	.35		Plating, Sheathing, material and thickness ...		
Thickness of Plating within line of openings... <i>maintenance provided</i>	.30 - .25 ✓		Forecastle Deck. Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness.....	✓		Plating, Sheathing, material and thickness...		
Second Deck. Stringer Plate, breadth and thickness in Wells	✓				

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

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

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

„ Deck next below.....

As per Rule.....

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 FROD'S STEEL CO."	6 1/2" x 1 1/4"
STEM	"	7" x 1 1/4"		6 1/2" x 1 1/4"
STERN FRAME	FORGED	5 1/2" x 2 1/2"	T. S. FORSTER	
{ Propeller Post	"	5 1/4" x 2 1/2"	& SONS LTD.	
{ Rudder				
Speed of Vessel	11 KNOTS			
RUDDER—Type	SINGLE PLATE			
" 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	SINGLE PLATE			
" coupling, vertical or horizontal	HORIZONTAL			

				STIFFENERS.				
				Plating Thickness.	VERTICAL.		HORIZONTAL.	
					Scantlings.	Spacing.	Scantlings.	Spacing.
		ON FRAME N ^o 11 ✓						
MIDSHIP	BULKH'D,	Upper two decks	378 ✓	6 x 3 x 40" } 5 x 3 x 34" }	30" ✓	✓	✓	
"	"	" Second " " 13 ✓	26 ✓	4 x 3 x 30" }	30" ✓	✓	✓	
"	"	" Third " " 41 ✓	34-26	4 x 3 x 38-30" }	24" x 30" ✓	W.T. FLAT	✓	
"	"	Holds " " 55 ✓	34-26	3 x 3 x 38-30" }	24" ✓	PEAK TANK TOP	✓	
COLLISION	"	" (in Hold) " 5 ✓	43-30	4 x 3 x 30" }	24" ✓	STEEL FLAT.	✓	
AFTER PEAK	"	" " " " ✓	✓					

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. APPLEBY - FRODINGHAM STEEL CO. LD. CONSETT IRON CO. LD.
SECTIONS:- CONSETT IRON CO. LD. APPLEBY - FRODINGHAM STEEL CO. LD. DORMAN, LONG & CO. LD.
 Has the Steel been tested as required by the Rules? YES. ✓

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:-

Stem frame
Rudder frame and rudder head

Old Rpt. No 6899.

7433.

This is a sister vessel to Messrs Bocheane & Sons Ltd Yarn No 1249 - Hull Rpt No 51723. "EMPIRE PAT"

Copy of interim, completion, + steering chain test certificates enclosed herewith.

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-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	4-0-16	J.D.	6037.	28-2-41.
2nd "	4-0-10	J.D.	6052.	28-2-41.
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. Signal Letters Extreme Breadth over Belting 28' 4 1/2" Over-all Length 111' 8"

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

Parts of Bottom of Vessel coated with cement or approved composition. Bottom cemented from bilge to bilge.

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 2300

Date 22nd October 1941

Dates of Surveys held while building

1942. Jan'y 27. 30. 4th, 6. 10. 16. 24. 27. March 3. 4. 11. 16. 18. 20. 25. 30.
April 3. 10. 14. 17. 21. 24. 28. May 1. 5. 8. 12. 15. 20. 22. 26. 29. June 3. 12. 17. 24.
July 2. 6. 10. 15. 21. 24. 28. August 14. 18. 20. 21. 28. Sept. 1. 3. 8.

Total No. of Visits 51