

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 13th April 1943 Port of HULL No. 51965

Survey held at GOOLE Date First Survey 6th February 1942 Last Survey 6th April 1943

On the ⁹⁰ (State if Machinery fitted Aft and if Single, Twin or Triple Screw) SINGLE SCREW TUG. "EMPIRE HARRY"

State Type (Full Scantling, Complete Superstructure) with or without Tonnage Openings **FULL SCANTLING** State Type of Erections **FORECASTLE**

TONNAGE under } 402.80
Tonnage Deck ... }
CLASS ~~100A1~~ 100A1
State if with freeboard } Yes.
as condition of Class }
Built at GOOLE

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

Length from fore part of stem to after part of stern }
post on summer L.W.L. See Sec. 3 (1a) } L 135.0 ✓

Launched 12th OCTOBER 1942 Yard No. 387

Total 402.80 Depth, at middle of length from top of keel to top)

Gross Tonnage **479.27** of beam at side of uppermost continuous deck. See Sec. 3 (1c) } Owners **MINISTRY OF WAR TRANSPORT.**

Register Tonnage **41.98** 1st Longitudinal Number (L x D).....= **2160** ✓
 Managers ✓

REGISTERED DIMENSIONS. Framing Depth "d," at middle of length. See *14.5* ✓ Residence *LONDON.*

Proportions—Depth to Length—Uppermost con-

continuous deck to top of keel 5

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

epin 100 Draught Moulded 14-4 1/2 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.....		20'		Bracket Floors, Frame			
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....		20'		" " Reversed Frame.....			
" " in peaks		20'		" " Vertical Struts			
SIDE FRAMING.				Centre Girder, depth and thickness amidships			
Frame Amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		6 3 35 AA.		" " top Angles			
" " Extends up to.....		Deck		" " bottom Angles.....			
Reversed Frame Amidships, Angle		3 1/2 3 1/2 43 Boiler Room		Side Girders, No. each side and thickness.....			
" " Extends up to		Across Floors		Margin Plate depth (excl. of flange) and thickness			
Depth of Framing Girder.....		6'		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem			
Frames in Uppermost Continuous 'tween Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$				" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area			
" " Second 'tween Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$				" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....			
" " Third				" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area			
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem				Tank Side Brackets, height above base line at toe of Frame and thickness			
" " in Peaks, Angle or $\frac{1}{2}$		6 3 35 AA.		INNER BOTTOM PLATING.			
Diameter and Spacing of Rivets through Frame and Shell Plating amidships		3/4" - 5/4"		Breadth and thickness of Middle Line Strake...			
State if Frame Joggled.....		No		Thickness of remainder in Holds			
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?		Yes		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?.....			
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....				BEAMS.			
SINGLE BOTTOM.				Uppermost Continuous Deck, amidships		5 3 36-30 AA.	
Floors, Depth and thickness at mid-line in Holds.....		18' x 33'		" " Wells, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		4 3 30 AA.	
Height of Brackets at side above base line at toe of frame.....		NONE		" " in way of Bridge, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			
Middle Line Keelson, on Floors, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		12' x 3 1/2' 3 1/2' 50 CHANNEL		" " Spacing		20'	
" " Through Plate or Inter-costal Plate				Second Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			
" " Foundation Plate on Floors				" " Spacing			
" " Flat Plate Keel Angles				Third Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			
Side Keelsons, No. each side.....		2 W.A.R. 8 3 1/2 55 AA.		" " Spacing.....			
" " ALSO BILGE KEELSON. thickness of Intercoastal Plate.....		38		Fourth Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			
" " Angles		5 3 50 SINGLE ANGLE		" " Spacing.....			
DOUBLE BOTTOM.				Poop Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			
Solid Floors, thickness and spacing				" " Spacing.....			
" " Are Frame and Reversed Frame joggled?				" " Bridge Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		3 3 3/8 AA.	
Bracket Floors, breadth and thickness at middle line				" " Spacing.....		28 3/4	
" " breadth and thickness at margin plate.....				" " Forecastle Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		5 3 30 AA.	
				" " Spacing.....		4 3 30 AA.	
						20'	

(MADE IN ENGLAND.)

W1185-0061 $\frac{1}{2}$

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	✓		Stringer Plate, breadth and thickness in way of Bridge		
" " in 'tween Decks, Size and Spacing	2½' DIA. AS PER PLAN APPROVED.	✓	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.....		
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.			If Plated, state thickness.....		
Stringer Plate, breadth and thickness in Wells	32' x .40	✓	Fifth Deck. Stringer Plate, breadth and thickness.....		
" " " " " " in way of Bridge	✓		If Plated, state thickness.....		
" " " " " " Angle in Wells	3½ 3½ .40	✓	Poop Deck. Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings } in way of Wells34 ✓		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Bridge Deck. Stringer Plate, breadth and thickness.....	48' x .26	✓
Thickness of Plating within line of openings...	.30 ✓		Plating, Sheathing, material and thickness26 Anne Steel Deck	✓
If Sheathed, material and thickness.....	BARE STEEL DECK. ✓		Forecastle Deck. Stringer Plate, breadth and thickness.....	48' x .36	✓
Second Deck. Stringer Plate, breadth and thickness in Wells	✓		Plating, Sheathing, material and thickness...	.30 Anne Steel Deck. UNDER WINDLASS.	✓

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			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.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
GIRBOARD Flat Plate Keel.....	A.	49½	.40	.40	.38		YES ✓		2 Rows ✓	¾	2 ⅝	STRAPS ✓	
" Delg. (if any)	B.	45	.38	.38	.34	1 .	" "		2 .	" "	LAPS ✓		
Bottom Plating, No. of Strakes	C.	46½	.38	.38	.34	1 .	" "		2 " ✓	" "	" ✓		
Bilge Plating, No. of Strakes	D.	56	.38	.38	.34	1 .	" "		2 " ✓	" "	" ✓		
Side Plating, No. of Strakes	E.	46	.38	.38	.34	1 .	" "		2 . ✓	" "	" ✓		
Upper Deck, Sheer-strake in Wells.....	F.	59½	.38	.38	.34	1 .	" "		2 . ✓	" "	" ✓		
Upper Deck, Sheer-strake in Bridge ...	G.	59	.50	.50	.34	2 . ✓	" "		2 . ✓	" "	STRAPS ✓		
Strake below Sheer-strake in Wells													
Strake below Sheer-strake in Bridge ...													
Poop Side Plating.....													
Bridge Side Plating.....													
Forecastle Side Plating			.30										

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *4BH for record*
Extending to Upper Deck (Sec. 3 c) *3WT and 5 D.T.B.NOS*
,, 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	FLAT BAR	ROLLED	8 x 1 1/2	ARLTON FADINGHAM STEEL CO.
STEM	"	"	"	"
STERN FRAME	{ Propeller Post	FORGED SCRAP STEEL	7 x 3 1/2	T.S. FORSTER & SONS
	{ Rudder	"	6 x 3 1/2	SUNDERLAND
Speed of Vessel	13 KNOTS			
RUDDER—Type				ORDINARY DOVAIL PLATE RUDDER.
"	A x D	157-07		
"	Diam. of head	FORGED SCRAP STEEL.	7" DIA.	T.S. FORSTER & SONS
"	Mainpiece at top pintle	"	7 1/2 x 5 1/8	SUNDERLAND.
"	"	"	5 1/2 x 3 1/2	
"	heel			
"	how constructed			FORGED FRAME AND SIDE PLATES.
"	double or single plate	ROLLED	.32	
"	coupling, vertical or			
"	horizontal			HORIZONTAL.

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
 APPLEBY FRODINGHAM STEEL CO., DORMAN LONG & CO., CONSETT IRON CO., SKIDNERS ROVE IRON CO.

Has the Steel been tested as required by the Rules? *Yes.*

The amount of Entry Fee..... £ 3-0-0
 FREIGHT FEE - - - - - £ 6-0-0
 Special Survey Fee..... £ 47-18-0
 FEE FOR SUPERVISION OF REPAIRS..... £ 11-19-6
 Travelling Expenses, if any £ 7-5-8

Fees applied for, 1943
 Received by me, 19

I am of opinion the Vessel should be Classed ~~100A1~~ **100A1**
 FOR TOWING SERVICES

Signature *[Signature]*
 Surveyor to Lloyd's Register of Shipping.

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

Certificate to be sent to *Hull* Date of issue *4/5/43*

Committee's Minute.....
 Character assigned.....

FRI. 30 APR 1943
+ 100A1
For Towing Services
Fitted for oil fuel H. 43
F.P. above 150° F
+ LMC H. 43
Lloyd A & Co
 Write *See*
the

© 2020
 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 plan has been retained as a sister vessel is at present under construction

PARTICULARS OF ELECTRIC WELDING (if employed)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

100A.I. FOR TOWING SERVICES

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	Anchor No.	Weight	Surveyor	No. of Certificate	Date
1st Bower	55570	5-3-4	J.D.	4578 SUNDERSLAND	5-3-37
2nd "	55571	5-0-13	A.E.G.	7106 "	6-8-42
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. 169081 Signal Letters Extreme Breadth over Belting 30.5 Over-all Length 143'-1" (Circ. 1703)

No. and Material of Decks 10" STEEL

Parts of Bottom of Vessel coated with cement or approved composition CEMENT COAT OF OIL FUEL TANKERS.

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,	7-3	19.83
Double bottom, under Engines and Boilers,			After peak tank, 8'-4" + 8'-6" COUNTER	16-83	28.24
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. 3505

Date 24.11.48

Dates of Surveys held while building

1942. Feb. 6. Mar. 5, 26, 30. Apr. 7, 14, 17, 21, 24, 28. May 5, 15, 20, 22, 28. June 1, 5, 9, 11, 16, 22, 29, July 2, 8, 14, 17, 20, 28. Aug. 14, 19, 24, 31. Sept. 3, 8, 10, 15, 18, 21, 24, 28. Oct. 2, 5, 9, 12, 16, 22, 1943. Feb. 10, 15, 17, 18, 23, 25, 26. Mar. 2, 5, 8, 12, 15, 18, 23, 30. Apr. 6.

Total No. of Visits 62.