

STEEL STEAMER OR MOTORSHIP.

11 MAY 1942

Received at London Office

WRECK SECTION.

State if Report has been sent on the Freeboard of the Vessel NOState if Report is sent on the Machinery of the Vessel YESNo. 370.Date of completion of report 1st APRIL 1942. Port of HULL No. 51596.Survey held at THORNE Date First Survey 16th January 1941. Last Survey 31st MARCH 1942Name of the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL SINGLE SCREW TUG "EMPIRE SPRUCE"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING. State Type of Erections FLUSH DECK.Tonnage under Tonnage Deck ... 123.17 CLASS A1. State if with freeboard as condition of Class NO Built at THORNELength from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 92.0 Launched 13th JANUARY 1942 Yard No. 364Breadth (greatest moulded) 20.5 Builders RICHARD DUNSTON LTDDepth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 10.5 Owners MINISTRY OF WAR TRANSPORT.1st Longitudinal Number (L x D) 966 Managers ✓ (Where necessary to be entered in Reg. Book)2nd Numeral L x (B + D) 2852 Residence LONDON.Framing Depth "d," at middle of length. See Sec. 3 (1d) 8.76 Port of Registry GOOLE.Proportions—Depth to Length—Uppermost continuous deck to top of keel ✓ Do. Long Bridge to top of keel ✓ If surveyed while building, afloat, or in dry dockDraught Moulded 8.45 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	✓	
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....	21	✓	" " Reversed Frame.....	✓	
" " in peaks	21	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	30 x 40	✓
Frame Amidships, Angle, <u>4</u> <u>2½</u> <u>32</u>	4 2½ 32	✓	" " top Angles	2½ 2½ 38	✓
" " <u>IN BOILER ROOM - BUNKER 4</u> <u>2½</u> <u>38</u>	4 2½ 38	✓	" " bottom Angles.....	3 3 42	✓
" " Extends up to.....	DECK.	✓	Side Girders, No. each side and thickness.....	✓	
Reversed Frame Amidships, Angle	2½ 2½ 36	✓	Margin Plate depth (excl. of flange) and thickness	✓	
" " Extends up to.....	ACROSS FLOORS.	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	✓	
Depth of Framing Girder.....	4	✓	" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	✓	
" " Second 'tween Decks, Angle, [or [.....			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	✓	
" " Third			Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem			INNER BOTTOM PLATING.		
" " in Peaks, Angle <u>4</u> <u>2½</u> <u>32</u>	4 2½ 32	✓	Breadth and thickness of Middle Line Strake...	48 x 36	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 - 4½	✓	Thickness of remainder in Holds	44	✓
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?.....	✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	NO.	✓	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 Wells, Angle, <u>4</u> <u>3</u> <u>32</u>	4 3 32	✓
SINGLE BOTTOM.			" " in way of Bridge, Angle, <u>4</u> <u>3</u> <u>30</u>	4 3 30	✓ BEAMS.
Floors, Depth and thickness at mid-line in Holds.....	14 x 36	✓ IN BOILER SPACE.	" " Spacing	21	✓
Height of Brackets at side above base line at toe of frame.....	✓		Second Deck, amidships, Angle, [or [.....		
Middle Line Keelson, on Floors, Angles, <u>3½</u> <u>3</u> <u>38</u>	3½ 3 38	✓ DOUBLE.	Spacing		
" " Through Plate or Inter-castal Plate	42	✓	Third Deck, amidships, Angle, [or [.....		
" " Foundation Plate on Floors	12 x 42	✓ EACH SIDE OF CR.	Spacing.....		
" " Flat Plate Keel Angles	3½ 3½ 40	✓ DOUBLE.	Fourth Deck, amidships, Angle, [or [.....		
Side Keelsons, No. each side.....	ONE	✓	Spacing.....		
" " thickness of Inter-castal Plate.....	✓		Poop Deck, Angle, [or [.....		
" " Angles	5 4 48	✓ IN BOILER ROOM	Spacing		
" " Angles	5 4 38	✓ FWD OF BOILER ROOM.	Bridge Deck, Angle, [or [.....		
DOUBLE BOTTOM. FRAMES 23x30 RESERVE FEED TANK.			Spacing.....		
Solid Floors, thickness and spacing	30 x 36	✓ 21" c/p. See plan.	Forecastle Deck, Angle, [or [.....		
" " Are Frame and Reversed Frame joggled?	NO	✓	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 1/4" DISC PILLARS / NO CONNECTION		Thickness of Plating abreast Deck openings in way of Wells			
" " " " " "		HOW FORG AND RIV GIBBARS FITTED IN FIVE CHAIN SPACE.		Thickness of Plating abreast Deck openings in way of Bridge			
" in Holds " " " " " "				Thickness of Plating within line of openings			
Centre Line Bulkhead.				If Sheathed, material and thickness			
Stiffeners and Spacing				Third Deck.			
Plating, thickness of				Stringer Plate, breadth and thickness			
STRINGERS AND DECKS.				If Plated, state thickness			
Uppermost Continuous Deck.				Fourth Deck.			
Stringer Plate, breadth and thickness in Wells		35 to 56 1/2 30 ✓		Stringer Plate, breadth and thickness			
" " " " in way of Bridge		✓		If Plated, state thickness			
" Angle in Wells		3 3 30 ✓		Poop Deck.			
Thickness of Plating abreast Deck openings in way of Wells		30 - 26 ✓		Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings in way of Bridge		✓		Plating, Sheathing, material and thickness			
Thickness of Plating within line of openings		32 - 30 - 26 ✓		Bridge Deck.			
If Sheathed, material and thickness		RELOTER FITTED UNDER STEEL DECK ✓		Stringer Plate, breadth and thickness			
Second Deck.				Plating, Sheathing, material and thickness			
Stringer Plate, breadth and thickness in Wells		✓		Forecastle Deck.			
				Stringer Plate, breadth and thickness			
				Plating, Sheathing, material and thickness			

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 4 ✓

„ Deck next below ✓

As per Rule 3

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar	<i>Flux</i>	<i>Plate Keel.</i>		
STEM	<i>TOLLED</i> <i>APR</i>	<i>5 1/2"</i>	<i>POWELL LONG CO.</i>	
STERN FRAME { Propeller Post	<i>TOLLED</i> <i>APR</i>	<i>5 1/2"</i>	<i>POWELL LONG CO.</i>	
{ Rudder	"	"	<i>POWELL LONG CO.</i>	
Speed of Vessel	<i>12 1/2 KTS.</i>		<i>W. D. BROWN, SOUTHERN</i>	
RUDDER—Type	<i>ANTHONY DOUGLAS</i>	<i>Plate Rudder</i>		
" A x D	<i>32-49 1/2 x 87 1/2</i>	<i>-63-6</i>		
" Diam. of head	<i>TOLLED</i> <i>APR</i>	<i>5 1/2"</i>	<i>POWELL CONSTRUCTION</i>	
" Mainpiece at top pintle	"	"	<i>BY</i>	
" " heel	"	"	<i>ENGINEERS.</i>	
" how constructed	<i>TOLLED</i>	<i>APR</i>	<i>POWELL LONG CO.</i>	
" double or single plate	<i>✓</i>	<i>28</i>	<i>✓</i>	
" coupling, vertical or	<i>NO COUPLING</i>		<i>CUT FROM COUPLER.</i>	
" horizontal				

STEEL.

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	<i>NEW HEARTH PROCESS.</i>
	<i>DANAS LONG & APPLEBY FROTHINGHAM STEEL CO. SOUTH DURHAM S. & I. C.</i>	
	Has the Steel been tested as required by the Rules?	<i>Yes.</i> ✓

EQUIPMENT No. 2852

LETTER.

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 55.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs. lbs.	Cwts.	qrs. lbs.	Tons.	cwts. qrs. lbs.				
54493	1st Bower ...	4	0 8	1	0 20	6	10 0	0 ✓	4 ✓	ORDINARY FORGED WROUGHT IRON ANCHOR. NAME NOT GIVEN. FORBES HEATH 29-10-41 S.C. PAUL.	
54494	2nd „ ...	4	0 14	1	0 31	6	10 0	0 ✓	4 ✓	"	" 29-10-41 "
✓	3rd „ ...	-	-	-	-	-	-	-	-	✓	✓
✓	Collective weight	8	0 22	2	1 13	-	-	-	8	✓	✓
✓	Stream	-	-	-	-	-	-	-	Stream	✓	✓

CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size supplied.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size supplied.		
	Length.	Diam.	Statn-ory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Fathoms.	Cir.		Tons.	Fathoms.	Ins.
64115	60	7/8	19 3/4	20 5/8	24-1-20	23 1/2	60	7/8	STUD LINK.	LONDON BRIDGES LTD	GARDLEY HEATH 10-10-41 S.C. PAUL.	HAWES & WARPS	60	5 1/2	-	60	5 1/2	
												"	60	3'	-	60	3'	
		Cir.										"						

HAWSERS AND WARPS.

Steering Gear, Type (Power ~~or hand~~) *STEAM STEERING GEAR BY DONNISON, NEWCASTLE* Alternative Means of Steering *THRU AFT BLOCKS AND TACKLES*
ON TWIN.

Steering Chains (Size and Test) *3/4" DIA., 6 3/4 TONS, TEST.* Windlass *STEAM AN EMERSON WALKER* Boats *2 WOOD LIFEBOATS.*
GUTHRIE

Ceiling in Holds, thickness and material _____ Cargo Battens, thickness, material and spacing _____

Cargo Hatchways.—(Upper Deck) *2 SMALL COAL HATCHES ON CRUISING TOP.* Thickness of Hatches *3" ALL HATCH COVERS.*

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 }

Builder's Signature *Richard Dunston* **ASD PRO RICHARD DUNSTON, LTD.**

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 No ✓
(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

This vessel has been built in accordance with the approved plans and specification and in conformity with the Rules for the Vessels contemplated. ✓
The materials and workmanship are good. ✓
The fore and after peaks, main feed tank, and fresh water tank have been tested to Rule requirements and found satisfactory. ✓
Decks, carings, W.T. bulkheads, steering gear and windlass have been tested. ✓
The main hand pump tested. ✓

The amount of Entry Fee..... £ 2-0-0 } Fees applied for
Special Survey Fee..... £ 20-0-0 }
Surrounding or Specification - - £ 5-0-0 } Received by me,
Travelling Expenses, if any £ 7-6-2 } 19
State whether the Vessel has been built under Special Survey *Yes.*
37/
81/4/42

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

I am of opinion the Vessel should be Classed *181/100A.1*
See Tonnage Schedule

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

Certificate to be sent to Rev. J. H. Jones Date of issue 01/04/22
 Character assigned Committee's Minute 15 MAY 1922
+ 1000
In Town Services
Lloyd's arch. ex. + Lamb 3, 42
Write G.H. 22, 09

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.)

THIS VESSEL IS A SISTER SHIP TO EMPIRE PLANE HULL F.E. REPORT NO 51481.

PARTICULARS OF ELECTRIC WELDING (if employed) STERN FRAME AND RUDDER OF WELDED CONSTRUCTION.

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

100 P.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 ☒
2nd " ☒
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. 168780

Signal Letters

Extreme Breadth over Belting 20' 9"
(Circ. 1611)

Over-all Length 97' 6"
(Circ. 1703)

No. and Material of Decks 10th STEEL.

Parts of Bottom of Vessel coated with cement or approved composition BOTTOM COVERED WITH CEMENT 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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, <u>RESERVE FEED TANK</u>	<u>12.25</u>	<u>11 1/2</u>	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
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, <u>F.W. TANK FORWARD 38' 40"</u>	<u>3.5</u>	<u>6</u>
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3246

Date 31st Dec. 1940.

Dates of Surveys held while building

1941. Jan. 16. 30. Feb. 7. 21. Mar. 3. 13. 20. 26. Apr. 1. 7. 16. 23. 28. May 5. 13. 20. 26. 29. June 5. 11. 18. 24. 30. July 8. 18. 24. 30. Aug. 19. 25. Sept. 1. 15. 22. 26. Oct. 1. 8. 16. 23. 31. Nov. 4. 6. 13. 21. 24. 27. Dec. 3. 12. 17. 22. 29. 1942. Jan. 5. 7. 12. 26. Feb. 2. 9. 16. 23. 27. Mar. 4. 11. 18. 25. 31.

Total No. of Visits 62