

RECEIVED

11 AUG 1943

IN D.O.

STEEL ~~STEAMER~~ MOTORSHIP.

Received at London Office

10 AUG 1943

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 30th JULY 1943 Port of HULL No. 52094Survey held at THORNE Date First Survey 13th May 1942 Last Survey 29th JULY 1943On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) SINGLE SCREW COLLIER "EMPIRE LAIRD" Merry AftState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING State Type of Erections POOP AND FORECASTLETONNAGE under Tonnage Deck ... 218.81Do. of space or spaces between Tonnage Dk. and Upper Dk. ✓Total 218.81Gross Tonnage 313.28Register Tonnage 142.50

REGISTERED DIMENSIONS.

FEET

Length 141.7Breadth 21.55Depth 9.1CLASS A/100A1 'COASTING' State if with freeboard YES
SERVICE GREAT BRITAIN & IRELAND as condition of ClassLength from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 140.0Breadth (greatest moulded) 21.5Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 10.01st Longitudinal Number (L x D) 14002nd Numeral L x (B + D) 4410Framing Depth "d," at middle of length. See Sec. 3 (1d) 9.58Proportions—Depth to Length—Uppermost continuous deck to top of keel 14Do. Long Bridge to top of keel ✓Draught Moulded 8'-9 1/4"Built at THORNELaunched 29th DECEMBER 1942 Yard No. 393Builders RICHARD DUNSTON LTDOwners MINISTRY OF WAR TRANSPORTManagers ✓
(Where necessary to be entered in Reg. Book)Residence LONDONPort of Registry GOOLE

If surveyed while building, afloat, or in dry dock

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 1/2 length amidships to Collision bulkhead.....	21' ✓		" " Reversed Frame.....		
" " in peaks	21' FORE PEAK 20' AFTER " ✓		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, <u>4 2 1/2</u> ✓	4 2 1/2 30 ✓		" " top Angles		
" " Extends up to	DECK ✓		" " bottom Angles.....		
Reversed Frame Amidships, Angle	2 1/2 2 1/2 28 ✓		Side Girders, No. each side and thickness.....		
" " Extends up to	ACROSS FLOORS ✓		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder.....	4 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....			" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
" " Second 'tween Decks, Angle, [or [.....			" " Gussets, spacing and scantling abaft 1/4 len. from stem.....		
" " Third			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " from 1/2 len. for'd. to 15% len. from Stem	4 2 1/2 26 AFTER PEAK ✓		Tank Side Brackets, height above base line at toe of Frame and thickness		
" " in Peaks, Angle <u>4 2 1/2</u> ✓	4 2 1/2 26 FORE " ✓				
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 - 4 1/2 ✓		INNER BOTTOM PLATING.		
State if Frame Joggled.....	No ✓		Breadth and thickness of Middle Line Strake.....		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes ✓		Thickness of remainder in Holds		
Are the scantlings and arrangements in way of the Bottom Forward 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?.....		
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....	14' x 28' ✓		Uppermost Continuous Deck, amidships		
Height of Brackets at side above base line at toe of frame.....	✓		Well, Angle, <u>4 2 1/2</u> ✓		
Middle Line Keelson, on Floors, Angles, <u>3 1/2</u> 3 30 DOUBLE ✓	3 1/2 3 30 DOUBLE ✓		" " in way of Bridge, Angle, <u>4 2 1/2</u> ✓		
" " Through Plate or Inter-costal Plate	17 1/2 x 33 ✓		Spacing	20 To 21' ✓	
" " Foundation Plate on Floors	12' x 33 ✓		Second Deck, amidships, Angle, [or [.....	✓	
" " Flat Plate Keel Angles <u>3 1/2</u> 3 1/2 34 DOUBLE ✓	3 1/2 3 1/2 34 DOUBLE ✓		Spacing	✓	
Side Keelsons, No. each side.....	ONE ✓		Third Deck, amidships, Angle, [or [.....	✓	
" " thickness of Intercostal Plate.....	28 ✓		Spacing.....	✓	
" " Angles	5 3 34 SINGLE ✓		Fourth Deck, amidships, Angle, [or [.....	✓	
DOUBLE BOTTOM.			Spacing.....	✓	
Solid Floors, thickness and spacing			Poop Deck, Angle, <u>4 2 1/2</u> 30 ✓		
" " Are Frame and Reversed Frame joggled?			Spacing.....	21' ✓	
Bracket Floors, breadth and thickness at middle line			Bridge Deck, Angle, [or [.....	✓	
" " breadth and thickness at margin plate.....			Spacing.....	✓	
			Forecastle Deck, Angle, <u>4 2 1/2</u> 30 ✓		
			Spacing.....	21' ✓	

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		IN 3 3 8-5 L th HARKS. POOP SPACE ON Nos 6-19-21 FRAMES.		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		44" x 40" - 34" - 30"		If Plated, state thickness.....		✓	
" " " " " in way of Bridge		✓		Poop Deck.			
" Angle in Wells		3 1/2 3 1/2 .34 ✓		Stringer Plate, breadth and thickness.....		51" x .24 ✓	
Thickness of Plating abreast Deck openings in way of Wells28 ABREAST SIDES. ✓		Plating, Sheathing, material and thickness24 ✓	
Thickness of Plating abreast Deck openings in way of Bridge.....		✓		3/4 THICK (CELOTEX) IN WAY OF ACCOMMODATION.			
Thickness of Plating within line of openings...		.30 - .28 ✓		Bridge Deck.			
If Sheathed, material and thickness.....		BARE STEEL DECK. 1" THICK COMPOSITE IN POOP SPACE COVERED WITH LINOLEUM.		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.....		51" x .24 ✓	
				Plating, Sheathing, material and thickness...		.34 - .24 ✓	
				BARE STEEL DECK.			

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>Yes</i> ✓			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.		
Flat Plate Keel..... <i>OUT</i>	<i>37</i> ✓	<i>.42</i> ✓	<i>.42</i> ✓	<i>.40</i> ✓		<i>2 Rows</i> ✓	<i>3/4</i> ✓	<i>6 Rivets Euc. FR.</i> ✓	<i>3 Rows</i> ✓	<i>3/4</i> ✓	<i>2 5/8</i> ✓	<i>STRAPS.</i> ✓
„ <i>Dble. (if any)</i> <i>1 1/2</i>	<i>42</i> ✓	<i>.32</i> ✓	<i>.35</i> ✓	<i>.28</i> ✓	<i>FORM</i> { <i>1</i> "✓	<i>5/8</i> ✓	<i>7 Rivets Euc. FR.</i> ✓	<i>2</i> "✓	<i>5/8</i> ✓	<i>2 1/4</i> ✓	<i>LAPS</i> ✓	
Bottom Plating, No. of Strakes <i>2</i>	<i>42</i> ✓	<i>.32</i> ✓	<i>.35</i> ✓	<i>.28</i> ✓	<i>FORM</i> { <i>2</i> "✓	"	<i>7 Rivets Euc. FR.</i> ✓	<i>2</i> "✓	"	"	"	
Bilge Plating, No. of Strakes <i>1 OUT</i>	<i>52</i> ✓	<i>.32</i> ✓	<i>.28</i> ✓	<i>.28</i> ✓	<i>1</i> "✓	"	<i>7 Riv. Euc. FR.</i> ✓	<i>2</i> "✓	"	"	<i>STRAPS.</i> ✓	
Side Plating, No. of Strakes <i>1 1/4</i>	<i>57</i> ✓	<i>.32</i> ✓	<i>.28</i> ✓	<i>.28</i> ✓	<i>1</i> "✓	<i>3/4</i> ✓	<i>6 Riv. Euc. FR.</i> ✓	<i>2</i> "✓	"	"	<i>LAPS.</i> ✓	
Upper Deck, Sheer- strake in Wells..... <i>OUT</i>	<i>40</i> ✓	<i>.44</i> ✓	<i>.30</i> ✓	<i>.30</i> ✓	<i>.52 AT POOP FRONT.</i> ✓	<i>1</i> "✓	"	"	<i>3</i> "✓	<i>3/4</i> ✓	<i>2 5/8</i> ✓	<i>STRAPS.</i> ✓
Upper Deck, Sheer- strake in Bridge ... }		✓										
Strake below Sheer- strake in Wells..... }		✓										
Strake below Sheer- strake in Bridge ... }		✓										
Poop Side Plating.....	<i>42</i> ✓	✓	✓	<i>.26-24</i> ✓		<i>1</i> "✓	<i>5/8</i> ✓	<i>7 Riv. Euc. FR.</i> ✓	<i>1</i> "✓	<i>5/8</i> ✓	<i>2 1/4</i> ✓	<i>LAPS.</i> ✓
Bridge Side Plating.....		✓										
Forecastle Side Plating	<i>39</i> ✓	✓	<i>.26-24</i> ✓	✓		<i>1</i> "✓	<i>5/8</i> ✓	"✓	<i>1</i> "✓	"✓	"✓	"✓

WATERTIGHT BULKHEADS.

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

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

„ Deck next below..... -

As per Rule..... 3

			Plating Thickness.	STIFFENERS.				
				VERTICAL.		HORIZONTAL.		
				Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP	BULKH'D,	Upper 'tween decks						
"	"	Second	"					
"	"	Third	"					
"	"	Holds	N ^o 21 ✓	29-26 ✓	5 x 3-30 ANGLES	24' ✓	-	✓
COLLISION	"	(in Hold)	" 71 ✓	33-30 ✓	7 x 3-35 TB. PL.	24' ✓	-	✓
AFTER PEAK	"	"	" 5 ✓	50 30	3-3 x 30 CENTRAL V.S.	✓	-	✓
			" 4 ✓	30	4 x 2-30	24' ✓	-	✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		FLAT PLATE KEEL ✓		
STEM	FLAT BAR	ROLLED. $5\frac{3}{4} \times 1\frac{1}{2}$	APPENY FRODINGHAM STEEL	
STERN FRAME	{ Propeller Post Rudder	ROLLED BARS $5\frac{1}{2} \times 2\frac{1}{4}$ " $5\frac{1}{2} \times 2\frac{1}{4}$	MATERIAL BY APPENY & CO. FRODINGHAM STEEL, OF WELDED CONSTRUCTION BY SHIPBUILDERS AND RENEWED BY J. BROWN T. FIRM. SHEFFIELD	
Speed of Vessel		9 TO 10 KNOTS.		
RUDDER—Type		SEMI. BALANCED TYPE.		
" A x D.		$30.8 \times 1.29 = 39.76$ ✓		
" Diam. of head	ROLLED BAR	$4\frac{1}{2}$ DIA.	} RUDDER OF WELDED CONSTRUCTION BY SHIPBUILDERS ✓	
" Mainpiece at top	"	$3\frac{1}{2}$		
" " heel	"	$3\frac{1}{2}$ ✓		
" how constructed		SIDE PLATES OF WELDED CONSTRUCTION. ✓		
" double or single plate coupling, vertical or horizontal		ROLLED .26 ✓ 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.
SOUTH DURHAM STEEL & IRON CO., DORMAN LONG & CO., APPLEBY FRODINGHAM STEEL CO., SKINNINGRODE IRON CO.

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

ANCHORS.

HAWSERS AND WARPS

any day.
Jillab: + LMC 7.43
OG. Oil mg.

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 retained for dealing with sister vessels now under construction.
A copy of approved plans is in Glasgow office.

PARTICULARS OF ELECTRIC WELDING (if employed)

Stem frame and rudder of welded construction
Knuckle around counter welded.

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

100A.1. "COASTING SERVICE GREAT BRITAIN & IRELAND". CARGO BATTENS NOT FITTED

		N ^o OF ANCHOR	WEIGHT C. & L.	SURVEYOR	N ^o OF CERTIFICATE	DATE.
Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	55629	4-0-22	A.E.G.	7339 SUNDIAL ROAD	1-10-42
	2nd "	55630	4-1-12	A.E.G.	7128 "	13-8-42.
	3rd "					

38'-2" see plan

19'-9" see plan

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 39'-1" ft., R.Q.D. ft., Bridge ft., Forecastle 19'-0" ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 169082 Signal Letters Extreme Breadth over Belting 21'-9 3/4" Over-all Length 148'-11" (Circ. 1611) (Circ. 1703)

No. and Material of Decks 10 1/2" STEEL.

Parts of Bottom of Vessel coated with cement or approved composition BITUMASTIC SOLUTION

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,	17-5	49
Double bottom, under Engines and Boilers,			After peak tank,	11-25 + 6-0 COUNTER	26
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. 3328.

Date 6/7/42.

Dates of Surveys held while building

1942. May 3. June 10. 19. July 6. 22. 28. Aug 12. 18. Sept 1. 11. 14. 23. Oct 1. 6. 9. 20. 28. Nov 3. 10. 14. 20. 24.
Dec. 1. 8. 14. 17. 29.
1943. Jan. 4. 13. 18. 21. Feb. 1. 8. 12. 22. 26. Mar 3. 10. 17. 24. 26. Apr. 2. 9. 16. 21. 28. May 4. 11. 19. 26.
June 23. 30. July 21. 25. 26. 27. 28. 29.

Total No. of Visits 58.