

STEEL STEAMER or MOTORSHIP

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 8th November, 1940

Port of DUNDEE

Survey held at DUNDEE

Date First Survey 3rd October, 1939 Last Survey 2nd November 1940

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Steel Single Screw Steamer TWICKENHAM

State Type (Full scantling, Complete Superstructure with or without Tonnage Openings)

Complete Superstructure with tonnage opening

State Type of Erections

TONNAGE under Tonnage Deck... 4239.10

CLASS + 100 A.1.

State if with freeboard as condition of Class YES

Built at DUNDEE

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 410.0

Launched 14th Sept, 1940 Yard No. 385

Total 4239.10

Breadth (greatest moulded) B 56.5

Builders Caledon S.B. & E. Co. Ltd.

Gross Tonnage 4461.98

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 36.33

Owners The Britain Steamship Co. Ltd.

Register Tonnage 2663.33

1st Longitudinal Number (L x D) = 14894

Managers Messrs. Watts, Watts & Co. Ltd. (Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 38061.7

REGISTERED DIMENSIONS.

FEET.

Length 414.6

Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.75

Residence London E.C.4.

Breadth 56.8

Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.98

Port of Registry London

Depth 25.0

Do. Long Bridge to top of keel

If surveyed while building, afloat, or in dry dock

Draught Moulded 25'-2 1/4

Building & afloat

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	3 1/2 ✓		Bracket Floors, Frame	BULB ANGLE 6 3 1/2 42 ✓	
" " from 3/4 length amidships to Collision bulkhead.....	24 ✓		" " Reversed Frame ".....	6 3 34 ✓	
" " in peaks.....	24 ✓		" " Vertical Struts 2 CHANNELS 8x3 1/2 x 3 1/2 42 ✓	6 3 34 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 54 ✓	
Frame Amidships, Angle [or].....	12 3 1/2 63 ✓		" " top Angles.....	double 3 1/2 3 1/2 48 ✓	
" " Extends up to.....	2nd DECK ✓		" " bottom Angles.....	4 4 54 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	one 38 ✓	
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	39 55 ✓	
Depth of Framing Girder	12 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....	6 6 44 ✓	
Frames in Uppermost Continuous 'tween Decks, Angle [or].....	6 3 1/2 34 ✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area.....	6 6 44 8 1/2 x 7 1/2 per in No. 1 hold ✓	
" " Second 'tween Decks, Angle [or].....	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	Tank top plate flanged up & connected to frame brackets. As per app. plan. ✓	
" " Third " " " ".....	12 3 1/2 63 B.A. and ✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	48 42 ✓	
" " from 1/4 len. for'd. to 15% len. from Stem	12 3 1/2 62 B.A. in No. 1 Hold. ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	53 52 ✓	
" " in Peaks, Angle [or].....	8 3 1/2 36 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 dia multiple as per approved plan ✓		Breadth and thickness of Middle Line Strake ...	53 52 ✓	
State if Frame Joggled	YES ✓		Thickness of remainder in Holds.....	44 ✓	
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?.....	yes ✓	increased to 52 in way of hatch
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	YES ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	10 3 1/2 40 ✓	
Floors, Depth and thickness at mid-line in Holds	✓		THROUGH BEAMS in Walls, Angle [or].....		
Height of Brackets at side above base line at toe of frame.....			" " in way of Bridge, Angle, [or].....		
Middle Line Keelson, on Floors, Angles, [or]	✓		Spacing.....	3 1/2 ✓	
" " " Through Plate or Intercostal Plate.....			THROUGH BEAMS		
" " " Foundation Plate on Floors.....			Second Deck, amidships, Angle [or].....	9 3 36 ✓	
" " " Flat Plate Keel Angles			Spacing.....	3 1/2 ✓	
Side Keelsons, No. each side	✓		Third Deck, amidships, Angle, [or]	✓	
" " thickness of Intercostal Plate...			Spacing.....		
" " Angles.....			Fourth Deck, amidships, Angle, [or]	✓	
DOUBLE BOTTOM.			Spacing.....		
Solid Floors, thickness and spacing	42 9 1/2 ✓		Poop Deck, Angle, [or]	✓	
" " Are Frame and Reversed Frame joggled?.....	YES ✓		Spacing.....		
Bracket Floors, breadth and thickness at middle line	33 42 ✓		Bridge Deck, Angle, [or]		
" " breadth and thickness at margin plate.....	33 42 ✓		Spacing.....		
			Forecastle Deck, Angle, [or]	✓	
			Spacing.....		

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.....	✓					✓			
„ in 'tween Decks, Size and Spacing.....	✓					✓			
„ „ „ „ „	✓					✓			
„ in Holds „ „	✓					✓			
„ „ „ „ „	✓					✓			
Centre Line Bulkhead.									
Stiffeners and Spacing.....	as per approved plan ✓								
Plating, thickness of	30	28	✓						
STRINGERS AND DECKS.									
Uppermost Continuous Deck. <i>amidships</i>									
Stringer Plate, breadth and thickness in Wells	59	60	✓						
„ „ „ „ „ in way of Bridge									
„ Angle in Wells	6	6	58	✓					
Thickness of Plating abreast Deck openings in way of Wells <i>Nº 2 HATCHWAY</i> ...	60	✓							
Thickness of Plating abreast Deck openings in way of Bridge <i>Nº 3 HATCHWAY</i> ...	54	✓							
Thickness of Plating within line of openings...	39	✓							
If Sheathed, material and thickness	✓								
Second Deck. <i>amidships</i>									
Stringer Plate, breadth and thickness in Wells	66	40	✓						
Stringer Plate, breadth and thickness in way of Bridge									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating within line of openings...									
If Sheathed, material and thickness									
Third Deck.									
Stringer Plate, breadth and thickness.....	✓								
If Plated, state thickness.....									
Fourth Deck.									
Stringer Plate, breadth and thickness.....	✓								
If Plated, state thickness									
Poop Deck.									
Stringer Plate, breadth and thickness	✓								
Plating, Sheathing, material and thickness ...									
Bridge Deck.									
Stringer Plate, breadth and thickness.....	✓								
Plating, Sheathing, material and thickness ...									
Forecastle Deck.									
Stringer Plate, breadth and thickness.....	✓								
Plating, Sheathing, material and thickness ...									

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>NO</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.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.			
FLAT PLATE KEEL	52 ✓	48 ✓	68 ✓	68 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Quadruple ✓	1" ✓	3 5/16 ✓	Inside straps ✓		
„ DBLG. (if any)	✓													
BOTTOM PLATING, No. } of Strakes 4..... }		60 ✓	58 ✓	50 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Triple ✓	7/8 ✓	3 1/8 ✓	lapped ✓		
BILGE PLATING, No. of } Strakes one..... }		60 ✓	53 ✓	50 ✓		Double ✓	" ✓	" ✓	Triple ✓	7/8 ✓	3 1/8 ✓	Inside straps ✓		
SIDE PLATING, No. of } Strakes 4..... }		60 ✓	58 ✓	46 ✓		Double ✓	" ✓	" ✓	Triple ✓	7/8 ✓	3 1/8 ✓	lapped ✓		
UPPER DECK, Sheer- } strake in Wells..... }	60 ✓	68 ✓	46 ✓	46 ✓	5 1/2 x 68 approved	Double ✓	" ✓	" ✓	Quadruple ✓	7/8 ✓	3 1/2 ✓	lapped ✓		
UPPER DECK, Sheer- } strake in Bridge ... }														
STRAKE BELOW Sheer- } strake in Wells..... }	5 1/2 ✓	64 ✓	46 ✓	46 ✓		Double ✓	" ✓	" ✓	Quadruple ✓	7/8 ✓	3 1/2 ✓	lapped ✓		
STRAKE BELOW Sheer- } strake in Bridge ... }														
POOP SIDE PLATING														
BRIDGE SIDE PLATING ...														
FORECASTLE SIDE PLATING														

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	Seven	Seven deck bulkheads at frames 27, 29, 60, 79, 101, 125 and vertically w. f. the tonnage openings are closed by steel plates secured by hook bolts spaced 12" apart
Extending to Upper Deck (Sec. 3 c)	one	
„ Deck next below	Six	
As per Rule	Seven	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D , Upper tween decks					
„ „ Second „					
„ „ Third „	✓				
„ „ Holds	39-26	12 x 3 1/2 x 46 B.A.	29		
COLLISION „ (in Hold)	48-32	8 x 3 x 45 B.A.	24	Semi box beams	✓
AFTER PEAK „ „	44-30	6 x 3 x 30 B.A.	24	Semi box beams	✓
		4 x 3 x 40 B.A.	24	Lamell Ribs	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar Flat plate	✓			
STEM Rolled Bar		10 x 2 1/2		upper part of 53 plate as per approved plan
CAST STEEL STERN FRAME Propeller Post	✓			By Messrs. Reid, Steel Fabricators of Utrrecht
Rudder	✓			SECTION! Stern frame per approved plan
Speed of Vessel 10 knots	✓			
RUDDER—Type				Certy Streamline Rudder
„ A x D				
„ Diam. of head				Stock 11" Forging By Dennystown Forge Co. of Dumbarton
„ Mainpiece at top pintle				Cast steel top & bottom arms by Messrs. Cairn & Co. Steel Casting Co. Renfrew
„ „ heel				Steel plates & angles fitted & completed by Calderon S.B. & Co. Ltd.
„ how constructed				
„ double or single plate coupling, vertical or horizontal with				50 8-2 3/4 dia fitted Bolts

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Colvilles Ltd
	The Steel Coy. of Scotland Ltd. Dornan Long & Co. Ltd. The Lanarkshire Steel & Iron Co. Ltd.	
	Has the Steel been tested as required by the Rules? Yes open Hearth Process	✓

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Steering Gear, Type (^{STEAM}Power or hand) By Messrs Donkin & Co Ltd Newcastle-on-Tyne Alternative Means of Steering Block & Tackle worked from after wheel.

Steering Chains (Size and Test) Windlass Steam by Clarke Chapman Boats 2 @ 24'-0"

Ceiling in Holds, thickness and material Tank top plating increased in thickness under hatchways in lieu of ceiling NONE Cargo Battens, thickness, material and spacing not fitted

Cargo Hatchways.—(Upper Deck) Steel plates & angles Thickness of Hatches Steel Covers 1/8" thick as per app plan.

Size of Hatchways No. 1 (Fwd.) 24'-0" x 24'-0" No. 2 26'-3" x 24'-0" No. 3 31'-6" x 24'-0" No. 4 26'-3" x 24'-0" No. 5 26'-3" x 24'-0" No. 6 —

Number of Shifting Beams } 3 AN^o 1, 4 AN^o 2, 5 AN^o 3, 4 AN^o 4, 4 AN^o 5,
and/or Fore and Afters }

Builder's Signature FOR AND ON BEHALF OF THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.
J. W. Norton DIRECTOR

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mae*

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

40. Rho, 2A, 4c

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.)

Sister vessel to TOTTENHAM, Dundee report No 9161.
Please note the seams of tank top plating in holds have been double riveted to comply with the carriage of oil fuel in double bottom tanks should the owners desire at any future date.
Cargo battens not fitted. Cleats for same placed on board & the owners state that the cargo battens will be fitted at first opportunity.

List of approved Plans

Midship Section & midship section (as built)
Profile & Decks
Aertry Streamline Rudder
Strengthening of Bottom for multiple Punching Diagram
Pumping arrangement
Aft end framing
Fly to Profile & Decks
Plan of Stem plate
Fly to Profile & Decks No 2
Duplex Steel hatch covers
Emergency Steering Gear
Blanking off of Scupper
Steel hatches
Bilge & Ballast Pumping Arrangement.

Invoices & Forging Reports herewith.

PARTICULARS OF ELECTRIC WELDING (if employed)

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

Cruiser stern, Wireless, Direction finding apparatus, Echo Sounding apparatus, with freeboard
Lloyds arch. "Cargo battens not fitted"

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 41-3-14, J. DALE, 39253, 21-10-39. 2nd " 41-1-14, " 39305, 23-10-39 3rd " 41-1-21, " 39295, 23-10-39 STREAM 16-2-7, " 39307, 31-8-39
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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. 168028 Signal Letters Extreme Breadth over Belting Complete S.S. vessel with T.O. aft
No. and Material of Decks one Deck Steel & Shelter deck (Circ 1611) Over-all Length 432.8' (Circ. 1703)
Parts of Bottom of Vessel coated with cement or approved composition Inside Double bottom
Particulars of composition (if fitted) and of approval Bitumastic Enamel

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.
Double bottom, aft, fr 34-60	68-25	202	Fore peak tank,	31.5	315
Double bottom, under Engines and Boilers,			After peak tank,	35.0	125
Double bottom, if under Engines only, fr 60-69	23.62	101	Deep tank, aft, Side tanks aft fr 14-34 P15	44.62	250
Double bottom, if under Boilers only, Dry tank 69-74	13.12		Deep tank, forward,		
Double bottom, forward, fr 74-151	193.12	673	Other tanks, if fitted,		
Total length (if continuous) and Capacity	298.11	946	(If necessary, furnish further information by sketch.)		

The Dry tank is fitted as a W.T. Compartment having air & sounding pipes & W.T. manhole cover. Suction connected to Bilge Line
1939 Oct. 3, 4, 14, 30, 31, Nov 3, 9, 10, 21, 22, 24, 28, 29, 30 Dec. 1, 4, 6, 7, 8, 11, 14, 18, 19
20, 21, 1940 Jan 5, 8, 9, 10, 11, 12, 15, 16, 19, 23, 24, 26, Feb. 5, 8, 9, 14, 16, 21, 23, 28.
March 5, 7, 13, 22, 29, April 2, 9, 15, 14, 19, 22, 30 May 1, 7, 13, 14, 21, June 4, 7, 10, 11, 14
18, 24, 26, July 2, 4, 8, 12, 18, 29 Aug. 2, 5, 6, 8, 14, 16, 19, 20, 21, 22, 23, 26, 27, 28
Sept. 2, 3, 4, 11, 13, 16, 14, Oct. 7, 8, 9, 15, 14, 18, 21, 22, 23, 24, 25, 28 Nov. 2
Total No. of Visits 110