

STEEL STEAMER OF MOTORSHIP

11 MAR 1931

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YES

Date of completion of report

5th MARCH 1931

Port of GREENOCK

No. 19304

Survey held at PORT GLASGOW

Date First Survey 15th JULY 1930Last Survey 24th FEBRUARY 1931

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

SINGLE SCREW STEAMER "DALIA"

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

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING. State Type of Erections SOLE ON SHELTER Dk

TONNAGE under Tonnage Deck

4661.72

CLASS 100.A.I.State if with freeboard as condition of Class YES

Built at PORT GLASGOW

Launched JANUARY 20th 1931 Yard No. 400

Builders ROBERT DUNCAN & CO LTD

Owners UNION GOVERNMENT OF SOUTH AFRICA RAILWAYS & HARBOURS ADMINISTRATION

Managers

(Where necessary to be entered in Reg. Book.)

Residence DURBAN

Port of Registry DURBAN

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT

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

Gross Tonnage

5188.05

Net Tonnage

3219.25

REGISTERED DIMENSIONS.

FEET.

408

55

25.8

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

L 404.75

Breadth (greatest moulded)

B 54.79

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

D 37.25

1st Longitudinal Number (L x D)

= 14672

2nd Numeral L x (B + D)

= 36848

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

16.68

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

10.86

Do. Long Bridge to top of keel

Draught Moulded

24'-8³/₄

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.
Spacing amidships	30		Bracket Floors, Frame	BA 6 3/2 34	
from 3/8 length to Collision bulkhead	27		Reversed Frame	BA 5 1/2 3 34	
in peaks	24		Vertical Struts	BA 5 1/2 3 34	
			CHANNEL	10x42x3 1/2x56	
AMIDSHIPS.			Centre Girder, depth and thickness amidships	42 3/4 x 56	
Amidships, Angle, E or F	10 3 1/2 40		top Angles	3 1/2 x 3 1/2 x 54	
Extends up to	3 RD DECK		bottom Angles	4 x 4 x 60	
Frame Amidships, Angle	BULB ANGLE		Side Girders, No. each side and thickness	46	App. 42
Extends up to	FRAMING		Margin Plate depth (excl. of flange) and thickness	36 x 53	
of Framing Girder	10"		Vertical Angle to Tank side	6 x 6 x 50	App. 3 1/2 x 3 1/2 x 45
in Uppermost Continuous 'tween Decks, Angle, E or F	6 3 1/2 30		Bracket abaft 1/2 len. from stem	6 x 6 x 50	App. 3 1/2 x 3 1/2 x 46
Second 'tween Decks, Angle, E or F	7 3 1/2 35		Vertical Angle to Tank side	6 x 6 x 50	App. 3 1/2 x 3 1/2 x 46
Third 'tween Decks, Angle, E or F	7 3 1/2 35		Bracket forward 1/2 len. from stem	6 x 6 x 50	App. 3 1/2 x 3 1/2 x 46
Spacing in Peaks, Angle, E or F	7 1/2 3 37		Gussets, spacing and scantling abaft 1/2 len. from stem	CONTINUOUS x 42	EVERY FRAME
Ter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 SPACED 5 3/4		Gussets, spacing and scantling forward 1/2 len. from stem	CONTINUOUS x 42	EVERY FRAME
Frame Joggled	YES		Tank Side Brackets, height above base line at toe of Frame and thickness	68 3/4 x 46	
ARRANGEMENTS (Sec. 7), state system and particulars	4 WEB FRAMES 3 STRINGERS. AS PER RULES		INNER BOTTOM PLATING.		
THENING OF BOTTOM FOR D. State Particulars	EXTRA INTERCOSTALS INCREASED THICKNESS. CLOSER RIVETING. AS PER RULES		Breadth and thickness of Middle Line Strake	74 1/2 x 54	74 1/2 x 49
BOTTOM.			Thickness of remainder in Holds	48	App. 44
Depth and thickness at mid-line in Holds			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	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Line Keelson, on Floors, Angles, E or F			Uppermost Continuous Deck, amidships	8 3 52 BA	
Through Plate or Intercostal Plate			in Wells, Angle, E or F		
Foundation Plate on Floors			in way of Bridge, Angle, E or F		
Flat Plate Keel Angles			Spacing	30	
Keelsons, No. each side			Second Deck, amidships, Angle, E or F	8 3 39	
thickness of Intercostal Plate			Spacing	30	
Angles			Third Deck, amidships, Angle, E or F	8 3 35	
Bottom.			Spacing	30	
Solid Floors, thickness and spacing	45 EVERY 3 RD FRAME App. 41		Fourth Deck, amidships, Angle, E or F		
Are Frame and Reversed Frame joggled?	YES		Spacing		
Bracket Floors, breadth and thickness at middle line	32 x 45		Peep Deck, Angle, E or F		
breadth and thickness at margin plate	38 1/2 x 45		Spacing		
			Bridge Deck, Angle, E or F		
			Spacing		
			Forecastle Deck, Angle, E or F	7 3 36	
			Spacing	24	

PILLARS AND DECKS.				INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows.....	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.					
Two Rows of Widely Spaced Pillars and Girders Centre Line							
Centre Line Bulkhead. Stiffeners and Spacing.....	FROM 9x3x35 BA To 10x3 1/2x45 BA						
Plating, thickness of	58 1/2x53						
Stringers and Decks. Uppermost Continuous Deck. Stringer Plate, breadth and thickness	58 1/2x53						
Angle in Wall	6 6 .56						
Thickness of Plating abreast Deck openings in way of Wells	46-36						
Thickness of Plating abreast Deck openings in way of Bridge	375-36						
Thickness of Plating within line of openings.....	375-36						
If Sheathed, material and thickness	NOT SHEATHED						
Second Deck. Stringer Plate, breadth and thickness	72x39						

EQUIPMENT No. 37819										LETTER AT		ANCHORS.	
Number of Certificate.	Anchor.	Weight, Ex. Stock.	Weight of Stock.	Test, Per Certificate.	Weight Required by Table 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.					
33478	1st Bower	68 0 14	Stockless	52 15 2 14.	68	Byers Improved	PER W.L. BYERS & CO. LTD	SUNDERLAND 3/1/30 J.H. BUTLER.					
24630	2nd "	67 3 0	"	52 10 0 0	68	"	"	LOW WALKER 3/10/30 A. GREEN					
33437	3rd "	59 2 7	"	48 2 3 7	58 1/2	"	"	SUNDERLAND 13/10/30 J.H. BUTLER					
64258	Stream	19 1 0	4 3 26	20 1 3 14	19	FORGED W.I. ANCHOR	R. SYKES & SONS LTD	TIPTON 29/10/30 W.A. DRYSDALE					
CHAIN CABLES.										HAWSERS AND WARPS.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.	Length and size per Table 53.	Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 53.	Length and size per Table 53.	Length and size per Table 53.
66742	90% 2 5/16 36 1/4 12 3/4 243-2-0	720 3/4	270 2 5/16 36 1/4 12 3/4 243-2-0	270 2 5/16 36 1/4 12 3/4 243-2-0	SPDLINK	R. SYKES & SONS LTD	TIPTON 14/12/30 W.A. DRYSDALE	TOWLINE	120 5 1/4 77-5	120 5 1/4	120 5 1/4	120 5 1/4	120 5 1/4
34630	180 2 5/16 36 1/4 12 3/4 485-2-21	720 3/4	270 2 5/16 36 1/4 12 3/4 485-2-21	270 2 5/16 36 1/4 12 3/4 485-2-21	"	"	CARLTON 29/10/30 W.A. DRYSDALE	HAWSERS & WARPS	2@90 2 1/2 13-2	2@90 2 1/2	2@90 2 1/2	2@90 2 1/2	2@90 2 1/2
Stream	90 5"	70-9	90 5"	90 5"	"	"	"	"	2@90 2 1/2 13-2	2@90 2 1/2	2@90 2 1/2	2@90 2 1/2	2@90 2 1/2

SHELL PLATING.										RIVETING.	
SCANTLINGS.					EDGES.					BUTTS.	
AS IN VESSEL.					State if Joggled? No					RIVETS.	
STRAKES.	AMIDSHIPS.	FORWARD.	AFT.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	SINGLE OR DOUBLE.	Diam.	Spacing or to cr.	No. of Rows of Rivets.	Diam.	Spacing or to cr.	STRAPPED OR LAPPED.
FLAT PLATE KEEL	51 1/2	.77	.67	.67	DOUBLE	7/8	3 1/2	FOUR	1"	4"	LAPPED
"					"	"	3 1/2	THREE	7/8	3 1/2	"
BOTTOM PLATING, No. of Strakes	4	.58	.49	.49	"	"	"	"	"	"	"
BILGE PLATING, No. of Strakes	1	.58	.49	.49	"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes	4	.58	.46	.46	"	7/8	"	FOUR	"	3 1/2	"
UPPER DECK, Sheer-strake in Wells	72	.66	.46	.46	"	7/8	"	THREE	"	3 1/2	"
UPPER DECK, Sheer-strake in Bridge	72	.60	.46	.46	"	7/8	"	THREE	"	3 1/2	"
STRAKE BELOW SHEER-strake in Wells											
STRAKE BELOW SHEER-strake in Bridge											
POOP SIDE PLATING											
BRIDGE SIDE PLATING											
FORECASTLE SIDE PLATING											
WATERTIGHT BULKHEADS.											
FORGINGS AND CASTINGS.											
STIFFENERS.											
STEEL.											

GENERAL DECLARATION. It should be stated (a) whether the vessel 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 be indicated, together with the flash point.

This vessel has been built in accordance with the approved plans and in general conformity with the Society's rules for the class contemplated.

The workmanship is good and the materials used throughout in the vessels construction are also good. The double bottom tanks, fore & aft peak tanks - deep tank have been tested to rule requirements and found satisfactory. All weather decks & cattle deck were hose tested & found satisfactory. The Watertight bulkheads were hose tested & found satisfactory. The freeboard has been assigned and the marks cut in on the vessels sides after verification. A copy of the letter from the Gunners regarding the omission of the tween deck bulkhead is attached.

The amount of Entry Fee £ 9 : 0 : 0 Fees applied for, 5th MARCH 1931

Special Survey Fee..... £ 329 : 14 : 0 Received by me, 4th MARCH 1931

FREEBOARD 11 : 0 : 0

Travelling Expenses, if any £ : : :

I am of opinion the Vessel should be Classed *100 A.1. WITH FREEBOARD. INTERMEDIATE TWEEN DECK BULKHEAD IN AFTER HOLD DISPENSED WITH. COLL BULKHEAD TO SHELTER DECK, 4 BULKHEADS TO UPPER DECK, 1 BULKHEAD TO 2ND DECK.

Signature Kenneth Inglis Surveyor to Lloyd's Register of Shipping.

date whether the Vessel has been built under Special Survey YES.

certificate to be sent to THIS OFFICE. Date of issue 13/3/31

Committee's Minute GLASGOW 10 MAR 1931

Character assigned +100 A.1

With fol. 2.31.

Leopold's Arch.

+ L.M.C. 2.31. F.D.

Intermediate Tween Deck Bulkhead in after hold dispensed with. Collision Bulkhead to Shelter Deck. 4 Bulkheads to Upper Deck. 1 Bulkhead to 3rd Deck.

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 following approved plans together with plans of Midship section & Profile & deck plan as built & the forging reports on Stern frame & rudder are herewith forwarded:

Stern frame & rudder.
Midship section
Profile & Decks
Fore & aft stiffening
Pumping arrangement
Longitudinal frame connections
Beams & Girders.
W. I. Bulkheads, tunnel & deep tank.
Cargo doors.
Decks in way of engine & boiler casing
Shoring of hatch side overhung beams.
Revised Profile & decks.

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower 40-2-22 : M.B. : 8594 : 12-9-30.
2nd " 40-0-20 : M.B. : 8596 : 12-9-30.
3rd " 34-1-3 : A.B. : 2977 : 26-5-30.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 26 ON SHELTER DECK

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

2 DKS (STL) & SHELTER DK (STL)

Is bottom of Vessel coated with cement ☒ YES.

Official No. ☒ ; Signal Letters ☒

particulars of composition WHOLLY COVERED WITH CEMENT IN DOUBLE BOTTOM.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.		Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	127.5	349	Fore peak tank,		
Double bottom, under Engines and Boilers,	27.5	120	After peak tank,	35	
Double bottom, if under Engines only,	12.5		Deep tank, at AMIDSHIPS.		
Double bottom, if under Boilers only,	183.25	598	Deep tank, forward,		
Double bottom, forward,	Total capacity of double bottom 380.75	1067	Other tanks, if fitted,		

(If necessary, furnish further information by sketch.)
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 3322

Date 24th July 1930.

Dates of Surveys held while building

(1930) July 15-18-22-24-29 Aug. 5-6-8-11-12-13-15-19-21-22-25-26-29 Sept. 1-2-3-4-5-8-11-12-15-16-24-26-30 Oct. 3-6-4-8-15-16-14-20-21-23-24-28-30-31 Nov. 3-4-5-6-4-10-11-12-13-14-18-19-20-21-24-25-26-27-28 Dec. 1-3-4-5-8-9-10-11-12-15-16-22-23-24-25-26 (1931) Jan. 4-9-12-14-15-14-19-20-29 Feb. 2-3-10-12-20-24

Lloyd's Register Foundation