

STEEL STEAMER ~~or MOTORSHIP~~

Received at London Office 1001 325

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 30th Sep^r 1925Port of GREENOCK.No. 18458Survey held at PORT-GLASGOWDate First Survey 14th December, 1924.Last Survey 29th September, 1925

On the (State if Machinery fitted Aft and)

(if Single, Twin or Triple Screw) SINGLE SCREW STEAMER~~"NERINA"~~NOW NAMED "ALOE"

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

FULL SCANTLINGState Type of Erections POOP, BRIDGE & FOCKLETONNAGE under Tonnage Deck... 4803.85CLASS X 100A1State if with freeboard as condition of Class NoBuilt at PORT-GLASGOW.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 401.54Launched 26th August 1925 Yard No. 365Total 4803.85Breadth (greatest moulded) B 52.73Builders ROBERT DUNCAN & COY LTDGross Tonnage 5047.13Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 30.0Owners SOUTH AFRICAN RAILWAYS & HARBOURS ADMINISTRATIONRegister Tonnage 3194.361st Longitudinal Number (L x D) = 12046.20Managers "

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

REGISTERED DIMENSIONS.

FEET.

Length 404.9Breadth 53.0Depth 27.65Framing Depth "d" at middle of length. See Sec. 3 (1d) 17.84Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.38Do. Long Bridge to top of keel 10.73Draught Moulded 24'-4 1/2"Residence JOHANNESBURG.Port of Registry CAPE TOWN.

If surveyed while building, afloat, or in dry dock

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	✓	28"			Bracket Floors, Frame	8 1/2	3 1/2	44	
" " from 1/2 length to Collision bulkhead.....	✓	27"			" " Reversed Frame	8	3	44	
" " in peaks.....	✓	24"			" " Vertical Struts	8	3	44	
SIDE FRAMING.					Centre Girder, depth and thickness amidships	41		53	
Frame Amidships, Angle, <u>E or C</u>	10 1/2	3 1/2	42		" " top Angles	3 1/2	3 1/2	50	
" " Extends up to		2 ND DECK.			" " bottom Angles	4	4	56	
Reversed Frame Amidships, Angle					Side Girders, No. each side and thickness	1	2	40	
" " Extends up to					Margin Plate depth (excl. of flange) and thickness	41		50	
Depth of Framing Girder					" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6	6	44	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E or C</u>	7	3 1/2	37		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	6	6	44	
" " Second 'tween Decks, Angle, <u>E or C</u>					" " Gussets, spacing and scantling abaft 1/2 len. from stem	No GUSSETS. ADDITIONAL RIVETS FITTED IN VERT ^L ANGLE AS APP ^R .			
" " Third " " " " " "					" " Gussets, spacing and scantling forward 1/2 len. from stem	67		44	
Framing in Peaks, Angle or <u>C</u>	7 1/2	3	38		Tank Side Brackets, height above base line at toe of Frame and thickness				
Diameter and Spacing of Rivets through Shell Plating	7/8 DIA ² ; 7 DIA ²				INNER BOTTOM PLATING.				
State if Frame Joggled	YES.				Breadth and thickness of Middle Line Strake ...	72		48	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	WEB FRAMES & SIDE STRINGERS AS PER APP ^R PLAN.				Thickness of remainder in Holds			42	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	DOUBLE FRAMES & ADDITIONAL INTER ^L GIRDERS AS PER APPROVED PLAN. ALL INTER ^L GIRDERS FITTED FULL HEIGHT.				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.			
SINGLE BOTTOM.					BEAMS.				
Floors, Depth and thickness at mid-line in Holds					Uppermost Continuous Deck, amidships in Wells, Angle, <u>E or C</u>	6	3 1/2	44	
Height of Brackets at side above base line at toe of frame					" " in way of Bridge, Angle, <u>E or C</u>	6	3	44	
Middle Line Keelson, on Floors, Angles, <u>E or C</u>					Spacing	EVERY FRAME			
" " Through Plate or Intercoastal Plate					Second Deck, amidships, Angle, <u>E or C</u>	6 1/2	3	48	
" " Foundation Plate on Floors					Spacing	EVERY FRAME			
" " Flat Plate Keel Angles					Third Deck, amidships, Angle, <u>E or C</u>				
Side Keelsons, No. each side					Spacing				
" " thickness of Intercoastal Plate					Fourth Deck, amidships, Angle, <u>E or C</u>				
" " Angles					Spacing				
DOUBLE BOTTOM.					Poop Deck, Angle, <u>E or C</u>	6 1/2	3	36	
Solid Floors, thickness and spacing	40 EVERY 3 RD FRAME				Spacing	EVERY FRAME.			
" " Are Frame and Reversed Frame joggled?	YES.				Bridge Deck, Angle, <u>E or C</u>	6	3	39	
Bracket Floors, breadth and thickness at middle line	43"		40		Spacing	EVERY FRAME.			
" " breadth and thickness at margin plate	48"		40		Forecastle Deck, Angle, <u>E or C</u>	8	3	35	7 x 3 x 36
					Spacing	EVERY FRAME.			

W1165 - 00204

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.....		THREE			WIDE SPACED PILLARS				
,, in 'tween Decks, Size and Spacing.....		A DEEP GIRDERS AS							
,, ,, ,, ,, ,,		PER APPROVED							
,, in Holds ,, ,,					PLANS.				
CENTRE LINE PILLARS		POOP			2 3/4 DIA. ALT FRAMES				
,, ,, ,, ,,		BRIDGE			2 3/8 " " "				
,, ,, ,, ,,		FORECASTLE.			2 3/8 " " "				
PILLARS		IN HOLDS.			3 1/2 DIA. TO 5 1/2 DIA.				
Centre Line Bulkhead		SIZE			ON ALT FRAMES				
Stiffeners and Spacing.....									
CENTRE LINE PILLARS		IN TWEEN DS			2 3/4 DIA. TO 3 DIA.				
Plating, thickness of		SIZE & SPACING.			ON ALT FRAMES.				
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		56"		90					
,, ,, ,, ,, in way of Bridge		56"		39					
,, Angle in Wells		6"		6"	90				
Thickness of Plating abreast Deck openings				62					
in way of Wells									
Thickness of Plating abreast Deck openings				35					
in way of Bridge									
If Sheathed, material and thickness									
Second Deck.									
Stringer Plate, breadth and thickness in Wells...		76 1/2		39					
Stringer Plate, breadth and thickness in way					76				
of Bridge					34				
Thickness of Plating abreast Deck openings					35				
in way of Wells					32				
Thickness of Plating abreast Deck openings					32				
in way of Bridge					34				
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		54"		30					
Plating, Sheathing, material and thickness		STEEL DEK		30					
Bridge Deck.									
Stringer Plate, breadth and thickness		56		48					
Plating, Sheathing, material and thickness		STEEL DECK		38					
Forecastle Deck.									
Stringer Plate, breadth and thickness		34"		30					
Plating, Sheathing, material and thickness		STEEL DECK		26					
		SHEATHED WITH		2 1/2 PP					

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>Joggled.</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	49	.78 ✓	.68 ✓	.68 ✓		DOUBLE	1"	4"0	4 R	1"	4"	LAPPED.
„ — DBLS. (if any)												
BOTTOM PLATING, No. } of Strakes <i>FOUR</i> }		.60 ✓	.60 ✓	.50 ✓		"	7/8	3 1/2	3 R	7/8	3 1/8"	"
BILGE PLATING, No. of } Strakes <i>ONE</i> }		.60 ✓	.46 ✓	.48 ✓		"	"	"	"	"	"	"
SIDE PLATING, No. of } Strakes <i>THREE</i> }		.60 ✓	.44 ✓	.44 ✓		"	"	"	"	"	"	"
UPPER DECK, Sheer- } strake in Wells..... }	50 1/2"	.91 ✓	.44 ✓	.44 ✓		"	1"	4"0	5 R	1"	4"	"
UPPER DECK, Sheer- } strake in Bridge ... }		.60 ✓	.44 ✓	.44 ✓		"	7/8	3 1/2	3 R	7/8	3 1/8"	"
STRAKE BELOW Sheer- } strake in Wells..... }	61"	.74 ✓	.44 ✓	.44 ✓		"	1"	4"0	4 R	1"	4"	"
STRAKE BELOW Sheer- } strake in Bridge ... }		.60 ✓	.44	.44		"	7/8	3 1/2	3 R	7/8	3 1/8"	"
POOP SIDE PLATING38		SINGLE	3/4	3"	1 R	3/4	2 5/8"	"
BRIDGE SIDE PLATING ...	75	.57 ✓	.57	.57		DOUBLE	7/8	3 1/2	3 R	7/8	3 1/8"	"
FOREC'TLE SIDE PLATING			.40			SINGLE	3/4	3"	1 R	3/4	2 5/8"	"

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.	
Extending to Upper Deck (Sec. 3 c).....						FIVE				
,, Deck next below.....						ONE				
As per Rule.....						SIX				
						STIFFENERS.				
						Plating Thickness.	VERTICAL.		HORIZONTAL.	
							Scantlings.	Spacing.	Scantlings	Spacing.
MIDSHIP BULKHEAD, Tween decks...						"28-29"	ANG 5x3x42	36"	✓	✓
" " "										
" " "						OTHER BHD'S AS PER APP ^d PLAN.				
" " "										
" " "										
" " "										
" " "										
" " "										
" " Holds						"46-30"	B.H. 12x3½x56	30"	✓	✓
COLLISION " (in Hold)						"51-26"	B.H. 7x3x40	24"	2 SEMI BOX BEAMS	
AFTER PEAK " "						"50-30"	B.H. 8x3x40	24"	1 SEMI BOX BEAM & TUNNEL RECESS.	
KEEL, Bar						FLAT PLATE KEEL,				
STEM						ROLLED STEEL BAR 10 x 2½" PORTLAND FORGE				
STERN FRAME { Propeller Post						CASTING.	10½ x 7¾	OTTO GRUSON		
{ Rudder "						"	9 x 7¾	& COY.		
RUDDER—A x D.....						44x1				
Speed of Vessel						UNDER 12 KNOTS.				
RUDDER mainpiece at head ...						FORGING.	10"	WITKOW, BERG		
" " heel ...						"	7½"	& EISENH.		
" how constructed						BUILT FORGING.				
" double or single plate						SINGLE PLATE 1-08				
" coupling, vertical or horizontal						VERTICAL				
STEEL. OPEN HEARTH PROCESS.										
Manufacturer's name or trade mark of the Steel used in the construction of the										
Vessel (state process of manufacture) O. COLVILLE & SONS L ^D . LANARKSHIRE STEEL										
COYL ^D ; STEEL COY OF SCOTLAND L ^D ; W ^M BEARDMORE & COYL ^D ; SKIRNING GROVE IRON COYL ^D .										
PHOENIX:										
Has the Steel been tested as required by the Rules? YES.										

EQUIPMENT No. 34637										LETTER Y		ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
28999	1st Bower ...	61	0	0	Stockless			48	17	2	0	60	BYERS IMPROVED	W.L. BYERS & Coy L ^d	SUNDERLAND 28.7.25 J. H. BUTLER.
28892	2nd „ ...	60	0	0	"			48	7	2	0	60	D ^s	D ^s	SUNDERLAND 26.5.25 J. H. BUTLER.
28893	3rd „ ...	50	3	14	"			42	18	1	21	50½	D ^s	D ^s	SUNDERLAND 26.5.25 J. H. BUTLER.
	Collective weight.	171	3	14								170½			
58789	Stream	16	2	14	4	0	18	17	18	1	21	16¼	ORDINARY	N. Bloomer & Sons L ^d	TIPTON 28.4.25 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.	Diam.	Statu- tory.	Break- ing.	Supplied.		Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
59726	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.	STUD LINK.	N. BLOOMER & SONS L ^D	TIPTON 28.4.25 N. A. DRYSDALE CRADLEY HEATH 28-7-25 S. C. PAUL.	TOWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
38119	135½	2¾	86½	120½	326	0	20	645¾	270	2¾					120	4¾	15½	2290	2¾	
	270½	"	"	"	655	1	20								2290	2½	12½	2290	2½	
Main Stream Chain or Steel Wire	90	4¾	47.0						90	4¾	GR. STEEL WIRE.									

Steering Gear, Steam BY PORT-GLASGOW ENGINEERING COY.

Steering Gear, Hand RELIEVING TACKLE FITTED AND WORKED FROM AFTER WINCH.

Boats 2 a) 24' x 7'6" x 3'0"
2 a) 16' x 5'9" x 2'4"

Steering Chains, Size and Test 1 1/16" DIA^s ; 24 3/4 TONS.

Windlass STEAM, BY EMERSON, WALKER, THOMPSON.

Ceiling in Holds, thickness and material 2 1/2" W.P. UNDER HATCHES & OVER LIMBERS ONLY. Cargo Battens, thickness, material and spacing 2" W. PINE IN HOLDS & TWEEN DECKS.

Cargo Hatchways. (Upper Deck) STEEL PLATES AND ANGLES.

Thickness of Hatches 2 1/2" SOLID COVERS.

Size of No. 1 Hatchway (Forward) 27'0" x 18'0" No. 2 28'0" x 18'0" No. 3 35'0" x 18'0" No. 4 30'4" x 18'0" No. 5 16'4" x 18'0" No. 6 ✓

Number of Shifting Beams and/or Fore and Afters 5 WEBS IN NOS 1 & 2 HATCHES ; 7 WEBS IN N^o 3 ; 6 WEBS IN N^o 4 ; 2 WEBS IN BRIDGE D^s HATCH.

Builder's Signature

Robert Duncan & Co Lt^d
J. A. Kelly

GENERAL DECLARATION THE 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 IN THE VESSEL'S CONSTRUCTION ARE ALSO GOOD.

THE FREEBOARD HAS BEEN VERIFIED AND THE MARKS CUT IN ON VESSEL'S SIDES.

THE DOUBLE BOTTOM TANKS, AFTER PEAK TANK, DEEP TANK AND THE FORE PEAK HAVE BEEN TESTED TO RULE REQUIREMENTS AND FOUND SATISFACTORY.

THE WEATHER DECKS, W.T. BULKHEADS AND TUNNEL WERE HOSE TESTED AND FOUND SATISFACTORY.

LETTER FROM THE OWNER'S REGARDING OMISSION OF TWEEN DECK BULKHEAD IN AFTER HOLD ATTACHED.

THE APPROVED PLANS AND FORGING REPORTS, TOGETHER WITH PLANS OF MIDSHIP SECTION, & PROFILE & DECKS AS BUILT ARE FORWARDED HERENITH.

The amount of Entry Fee £ 9 : 0 : 0

Special Survey Fee.... £ 326 : 3 : 6

FREEBOARD.
Travelling Expenses, if any £ 11 : 0 : 0

Fees applied for,

2.10.1925

Received by me,

12.10.1925

I am of opinion the Vessel should be Classed *100A1

"INT TWEEN DK BHP IN AFTER HOLD
DISPENSED WITH"
5 BHP TO UPPER DK ; 1 BHP TO 2nd DECK.

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

Signature

Robert Duncan

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK.

Date of issue 12/10/25.

Committee's Minute

GLASGOW 6-OCT 1925

Character assigned

-1- 100A1

W.M.

9.25

Lloyds A & CP
+ L.M.C. 9.25 F.D.

Int. Tween DK B.H. in after hold dispensed with
5 B.H. to upper DK 1 B.H. to 2nd DK



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Lloyd's Register
Foundation

willbs - 00202

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 IS A ~~SISTER~~ VESSEL TO S. S. "BENICIA"; GRK REP NO 18399.

— LIST OF PLANS. —

MIDSHIP SECTION.

PROFILE AND DECKS.

FORE & AFTER PEAK BHD^s; PAINTING ARRANGEMENTS; STRENGTHENING FORWARD.

SECOND DECK IN WAY OF BOILER CASING.

DEEP TANK, N.T. BULKHEADS & SHAFT TUNNEL.

DEEP TANK, AMENDED PLAN.

PILLARS & GIRDERS.

STERN FRAME & RUDDER.

STRENGTHENING AT BRIDGE ENDS.

QUADRANT & TILLER.

PUMPING ARRANGEMENT.

MIDSHIP SECTION (AS BUILT)

PROFILE & DECKS (AS BUILT).

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

1st Bower
2nd "
3rd "

WEIGHT HEAD & PIN.
39 - 0 - 14
39 - 1 - 0
32 - 2 - 0

SURV^y INITS
M. B.
M. B.
K. H.

CERTIFICATE NO
2978
2266
3384

DATE OF TEST.
19.5.25
30.12.24
17.3.25

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 37.75 ft., R.Q.D. ☒ ft., Bridge 119.0 ft., Forecastle 38.65 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

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

2 DKS (STL)

Official No. ; Signal Letters

particulars of composition PORTLAND CEMENT IN DRY TANK. CEMENT FILLETS ELSEWHERE
AUTOMATIC ENAMEL ON FLOORS IN DRY TANK; ELSEWHERE FLOORS CEMENT WASHED.

If bottom of Vessel has been coated Inside ☒

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Cap. Tons.
Double bottom, aft,	133.0	413	Fore peak tank,		
Double bottom, under Engines and Boilers, INCLUDING DRY TANK N.T. COMP	39.7	84	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	30.33	102
Double bottom, forward,	175.18	575	Other tanks, if fitted,		
	Total capacity of double bottom	1072	(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. 8143

Date 24.12.24

Dates of Surveys held while building

(1924) Dec. 4.12.18.25. (1925) Jan. 8.12.15.16.23.26.27. Feb. 3.5.10.16.27. Mar. 5.9.19.25. Apr. 1.8.13.15.16.17.20.22.24.27. May 7.13.18.20.26.28. June 1.2.4.5.8.9.10.12.15.18.19.23.29.30. July 22.27.29.31. Aug. 3.5.6.8.10.11.13.14.20.23.26. Sept 8.23.29.

Total No. of Visits 69.