

STEEL STEAMER or MOTORSHIP.

Received at London Office 12 MAR 1930

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 MARCH, 1930.

Port of GREENOCK.

No. 19161.

Survey held at GREENOCK.

Date First Survey 28TH JUNE, 1929.Last Survey 4TH MARCH, 1930.

On the (State of Machinery fitted with or without Tonnage Deck)

S.S. "DALCROY"

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

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING State Type of Erections None.

TONNAGE under Tonnage Deck... 4247.13.

CLASS 100 A.1.

State if with freeboard as condition of Class ☒ YES.

Built at GREENOCK.

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 405.0.

Launched 30TH JAN^Y 1930. Yard No. 645.

Breadth (greatest moulded) B 53.83.

Builders SCOTT'S S. B. & CO. LTD.

Total 4247.13.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 75.6" D 35.25.

Owners THE UNITED STEAM NAV. CO. LTD.

Gross Tonnage 4557.64.

Register Tonnage 2821.02.

1st Longitudinal Number (L x D) = 14276.

Managers CAMPBELL BROS AND CO.
(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 36077.

Residence NEWCASTLE ON TYNE

REGISTERED DIMENSIONS.

FEET.

Length 406.5.

Breadth 54.1.

Depth 24.8.

Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.91.

Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.57.
Do. Long Bridge to top of keel ☒

Draught Moulded 24.02.

Port of Registry NEWCASTLE.

If surveyed while building, afloat, ☒ in dry dock AND YES.

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	30		Bracket Floors, Frame	6 3 36	
" " from 3/4 length to Collision bulkhead	27		" " Reversed Frame	6 3 36	
" " in peaks	24		" " Vertical Struts	6 3 36	
SIDE FRAMING.			" " Vertical Struts	10 3 36	
Frame Amidships, Angle, E or F	12 3 51		Centre Girder, depth and thickness amidships	43 58	
" " Extends up to	2ND DECK.		" " top Angles	3 3 58	
Reversed Frame Amidships, Angle	BULB ANGLE FRAMING.		" " bottom Angles	4 4 59	
" " Extends up to	✓		Side Girders, No. each side and thickness	ONE 41	
Depth of Framing Girder	12		Margin Plate depth (excl. of flange) and thickness	3 3 53	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	6 3 42		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	5 5 47	
" " Second 'tween Decks, Angle, E or F			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 47	
" " Third " " " "			" " Gussets, spacing and scantling abaft 1/2 len. from stem	ON EVERY FRAME 50	
Framing in Peaks, Angle or F	7 3 48		" " Gussets, spacing and scantling forward 1/2 len. from stem	" " " "	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 3/4		Tank Side Brackets, height above base line at toe of Frame and thickness	6 7 47	
State if Frame Joggled	YES.		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	3 WEBS 29 1/2 x 50. 3 STRS 29 1/2 x 34. 8 AS APPD PLANS.		Breadth and thickness of Middle Line Strake	64 51	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	EXTRA INTERCOSTALS. DOUBLE RIVETED FRAMES AS APPD PLANS.		Thickness of remainder in Holds	43	
SINGLE BOTTOM.			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.	
Floors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships in Walls, Angle, E or F	7 3 36	
Middle Line Keelson, on Floors, Angles, E or F			" " in way of Bridge, Angle, E or F		
" " Through Plate or Intercostal Plate			Spacing	ON EVERY FRAME.	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, E or F	7 3 47	
" " Flat Plate Keel Angles			Spacing	ON EVERY FRAME.	
Side Keelsons, No. each side			Third Deck, amidships, Angle, E or F		
" " thickness of Intercostal Plate			Spacing		
" " Angles			Fourth Deck, amidships, Angle, E or F		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	41 EVERY 3RD		Poop Deck, Angle, E or F		
" " Are Frame and Reversed Frame joggled?	YES.		Spacing		
Bracket Floors, breadth and thickness at middle line	32 1/2 41		Bridge Deck, Angle, E or F		
" " breadth and thickness at margin plate	32 1/2 41		Spacing		
			Forecastle Deck, Angle, E or F		
			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.....	<i>TWO WITH CENTRE LINE BND IN HOLDS.</i>			Stringer Plate, breadth and thickness in way of Bridge			
" in 'tween Decks, Size and Spacing.....	<i>9 FT. CENTRE LINE.</i>			Thickness of Plating abreast Deck openings in way of Wells			
" " " " "	<i>AND WIDE SPACED</i>			Thickness of Plating abreast Deck openings in way of Bridge		36.	
" in Holds " "	<i>PILLARS AS PER.</i>			Thickness of Plating within line of openings....		34	
" " " " "	<i>APP' PLAN.</i>			If Sheathed, material and thickness			
Centre Line Bulkhead. <i>IN HOLDS.</i>				Third Deck.			
Stiffeners and Spacing.....	<i>BULB ANGLE.</i>			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	58	59		If Plated, state thickness			
" " " " in way of Bridge				Poop Deck.			
" Angle in Wells	6	6	59	Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings) in way of Wells			48	Plating, Sheathing, material and thickness ...			
Thickness of Plating abreast Deck openings) in way of Bridge				Bridge Deck.			
Thickness of Plating within line of openings...			44 38	Stringer Plate, breadth and thickness.....			
If Sheathed, material and thickness	<i>O.P. 2 1/2" OVER CREW SPACES AFT.</i>			Plating, Sheathing, material and thickness ...			
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	70 1/2	40		Stringer Plate, breadth and thickness.....			
				Plating, Sheathing, material and thickness			

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 6.

Extending to Upper Deck (Sec. 3 c) 1. (SHELTER DECK).

„ Deck next below 5.

As per Rule COLLISION TO SHELTER DK Y 5 TO UPPER DK.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'HD, Upper tween decks		✓				
"	" Second "	✓				
"	" Third "	✓				
"	" Holds		B.A. 44/26 11.31.48 30.			
COLLISION	" (in Hold)		53/26	B.A. CR. LINE. BHD 8.3.44 70.29		
AFTER PEAK	"		48/26	B.A. 62.3.42.24	TUNNEL RECESS	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	ROLLED STEEL	9 $\frac{1}{2}$ x 2 $\frac{1}{2}$.		
STERN FRAME {	Propeller Post	IRON.	10 $\frac{1}{2}$ x 7 $\frac{3}{4}$.	CALEDONIAN FORGE CO.
	Rudder "		9 x 7 $\frac{3}{4}$.	
RUDDER—A x D	390.	STEEL.		
Speed of Vessel	11 $\frac{1}{2}$ KNOTS.			
RUDDER mainpiece at head ...		9 $\frac{3}{8}$.	WITKOWITZER BERG	
" " heel ...		7 $\frac{1}{8}$.	AND PORTLAND FORG	
" how constructed		BUILT FORGING.		
" double or single plate		1.05.		
" coupling, vertical or				
" horizontal				

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) (OPEN HEARTH PROCESS).
STEEL. CO. OF SCOTLAND, D. COLVILLE & SONS, DORMAN LONG & CO, SCOTTISH IRON & STEEL CO.

Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No. 36301.												LETTER Z.		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.	Cwts.			
91369.	1st Bower ...	64	3	0	STOCKLESS.			50	17	2	0.	63. 3. 0.	CHALLENGE TYPE.	N. HINGLEY & SONS.	NETHERTON 11/12/29 H. GREEN.
91370.	2nd „ ...	63	3	10	"			50	10	0	0.	63. 3. 0.	" "	" "	" "
91368.	3rd „ ...	54	2	7.	"			45	2	3	7.	54. 2. 0.	" "	" "	" "
	Collective weight.	183	0	17								182. 0. 0.			
91406.	Stream	17	3	0.	4	2	18	18	16	1	0.	17. 2. 0.	ORDINARY.	" "	" 17/12/29 "
91407.	KEDGE.	10.	1	12.	2	3	0.	12	6	2	7.	✓	"	"	HAWSEERS 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.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
85782.	135	2 $\frac{1}{4}$	9 $\frac{1}{2}$	12 $\frac{1}{2}$	341.	0.	22				STUD.	N. HINGLE/ISONS.	NETHERTON.	30/1/30	TOWLINE...	120.	5	73.	120.	5
85791.	135	"	"	"	341.	0.	25				"	"	"	" 11/2/30. " "	HAWSERS & WARPS }	2-120	3 $\frac{1}{2}$	26.	2.90	2 $\frac{3}{4}$
	270.				682.	1.	19.	682.	1.	0.	270.	2 $\frac{1}{4}$				"	2-120	3.	18.	2.90
		Cir.								Cir.					"					
Iron Stream Chain-Steel Wire	120.	4 $\frac{1}{2}$		52 $\frac{1}{2}$					90.	4 $\frac{3}{4}$					"					

Steering Gear, Steam *By HASTIE & CO.* Steering Gear, Hand *RELIEVING TACKLES WORKED FROM WINCH.*

Boats *FOUR.* Steering Chains, Size and Test *TELE MOTOR.* Windlass *STEAM BY CLARKE CHAPMAN.*

Ceiling in Holds, thickness and material *3" W.P. UNDER HATCHWAYS.* Cargo Battens, thickness, material and spacing *2" W.P. SPACED 9" ONLY.*

Cargo Hatchways.—(Upper Deck) *STEEL PLATES AND ANGLES.* Thickness of Hatches *2 1/2"*

Size of No. 1 Hatchway (Forward) *24'9" x 21'0" No. 2 30'0" x 21'0" No. 3 25'0" x 21'0" No. 4 10'0" x 21'0" No. 5 32'6" x 21'0" No. 6 22'6" x 21'0"*

Number of Shifting Beams *and for Fore and Afters 4 to No. 1 & 3, 5 to No. 2 & 5, 1 to No. 4, 3 to No. 6.*

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY, LIMITED.

Builder's Signature

Director.

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, instructions & printed rules of this Society. The materials & workmanship are of good quality. The double bottom tanks & after peak tank have been tested as required by the rules for water ballast compartments, the fore peak has been filled to L.W.L. and bulkheads found satisfactory. The remaining bulkheads, tunnels & weather decks have been hose tested. The freeboard has been verified & the marks cut on the vessel's side.

Note. The owners have requested that duplicate classification certificates be supplied.

The amount of Entry Fee £ 8 : 0 : 0.

Special Survey Fee £ 302 : 18 : 0.

FREEBOARD FEE. 8 : 6 : 8.

Travelling Expenses, if any £ : : :

Fees applied for,

MARCH 1930

Received by me,

11-3-1930

I am of opinion the Vessel should be Classed *100 A.I.*

WITH FREEBOARD

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

Signature

Surveyor to Lloyd's Register of Shipping.

IN DUPLICATE. via *gls.* Certificate to be sent to *GREENOCK OFFICE.* Date of issue *14/2/30*

Committee's Minute *GLASGOW 11 MAR 1930*

Character assigned *1-100 A.I. with freeboard*

Lloyd's A.I.C.P. + L.M.C. 330

72

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Lloyd's Register Foundation

W162-0212(212)

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 S.S. DALCROSS GRI. RPT. No. 19149.

The following approved plans and reports are forwarded herewith.

Midship Section, Profile & deck plans, Painting arrangements.

After peak stiffening, Sketch of deep tank Bunker plan.

Wide spaced pillars & girders, Stern & rudder frame. Quadrant & tiller,

Star-board rudder (4 plans) Pumping arrangements (14 plans)

also report on iron forged stern frame, steel forged rudder frame,

Cast steel quadrant & tiller, and Midship Section of ship as built.

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

1st Bower	3 ⁵ 0. 24.	K.H.	6588	28.6.29.
2nd "	31. 2. 9.	M.B.	6853.	29.8.29.
3rd "	27. 3. 19.	M.B.	7096.	25.10.29.

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 is joined to the B.D., this should be distinctly stated

COMPLETE SUPERSTRUCTURE VESSEL.

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

1 DK (STL) & SHELTER DK (STL).

Official No. 161550. : Signal Letters

Is bottom of Vessel ^{WHOLLY.} coated with cement ☒ YES. if not give

particulars of composition ☒

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity Tons.
Double bottom, aft,	122.5.	366.	Fore peak tank,	11.38	828
Double bottom, under Engines and Boilers,	—	✓	After peak tank,	25	42.
Double bottom, if under Engines only,	25.0	108.	Deep tank, aft, MIDSHIPS.	25	904.
Double bottom, if under Boilers only, DRY.	22.5	✓	Deep tank, forward,	—	✓
Double bottom, forward,	176.0	596	Other tanks, if fitted,	—	✓
	Total capacity of double bottom	1065.			✓

* The wells are not to be included in the lengths of the tanks.
346.0

Order for Special Survey No. 3284.

Date 10th June 1929.

Dates of Surveys held while building

(1929) June 28. July 19. 21. Aug. 5. 4. 13. 16. 20. 23. 24. 30. Sept. 2. 4. 6. 13. 14. 19. 23. 26. Oct. 2. 4. 10. 16. 20. 24. 28. 31. Nov. 4. 8. 12. 15. 19. 25. 24. Dec. 1. 9.
12. 16. 19. 23. 24. 26. 24. 31. (1930) Jan. 6. 10. 13. 14. 16. 14. 20. 22. 24. 24. 30. Feb. 5. 11. 13. 21. 25. 26. 28. Mar. 6. 4.

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Total No. of Visits 65.