

STEEL STEAMER or MOTORSHIP.

Received at London Office

10 FEB 1937

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 5th February 1937. Port of Greenock.No. 20312.Survey held at Greenock. Date First Survey 30th JANUARY 1936. Last Survey 5th FEBRUARY 1937.On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Spin S. S. "CLAN CAMERON" Mahy, amide.State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Comp. Super. with tonnage opening aft. State Type of Erections P.B. & Sels in Super. etc.TONNAGE under Tonnage Deck 6317.58 CLASS 100A1. State if with freeboard as condition of Class YES. Built at GreenockDo. 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 457.0 Launched 15th Oct. 1936. Yard No. 426.Breadth (greatest moulded) B 62.75 Builders The Greenock Dock Co. Ltd.Total 6317.58 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 40.75 Owners The Clan Line Steamers Ltd.Gross Tonnage 7242.9 1st Longitudinal Number (L x D) = 18571 Managers Cayzer, Irvine & Co. Ltd.Register Tonnage 3658.63 2nd Numeral L x (B + D) = 47345 (Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) 18.58 Residence London.Length 462.7 Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.25 Port of Registry Glasgow.Breadth 63.0 Do. Long Bridge to top of keel ✓ If surveyed while building, afloat, & in dry dockDepth 29.9 Draught Moulded 28' 1 7/8" 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	<u>33</u> ✓		Bracket Floors, Frame	<u>7 3 1/2</u> ✓	
" " from 3/4 length to Collision bulkhead	<u>27</u> ✓		" " Reversed Frame	<u>6 1/2</u> ✓	
" " in peaks	<u>24</u> ✓		" " Vertical Struts	<u>8 x 3 1/2 x 3 1/2</u> ✓	
" " <u>ACT. FRAMES 9-15</u>	<u>30</u> ✓		Centre Girder, depth and thickness amidships	<u>46</u> ✓	
SIDE FRAMING.			" " top Angles	<u>3 1/2</u> ✓	
Frame Amidships, Angle, E or L	<u>12 3 1/2</u> ✓	<u>12 x 3 1/2 x 46</u>	" " bottom Angles	<u>5</u> ✓	
" " Extends up to	<u>3rd DECK.</u> ✓		Side Girders, No. each side and thickness	<u>1 @</u> ✓	
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	<u>40</u> ✓	
" " Extends up to	✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<u>6</u> ✓	
Depth of Framing Girder	<u>RAUL ANGLE.</u>	<u>apex on all 12 ft. from 5 1/2 x 8 1/2 x 38 1/2</u>	" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	<u>6</u> ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or L	<u>8 1/2</u> ✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<u>DOUB. 21-7/8 @ FLAT TANK.</u>	
" " Second 'tween Decks, Angle, E or L	<u>8 1/2</u> ✓		" " Gussets, spacing and scantling forward 1/4 len. from stem	<u>CONTINUOUS ALT. 1/4 IN WAY OF D.B. DOUB. BOTTOM.</u>	
" " Third	<u>8</u> ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<u>7 3/2</u> ✓	
Framing in Peaks, Angle or L	<u>10 3 1/2</u> ✓	<u>8 x 3 1/2 x 45</u>	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>7/8 @ 6 DIA.</u> ✓		Breadth and thickness of Middle Line Strake	<u>5 1/2</u> ✓	
State if Frame Joggled	<u>YES.</u>		Thickness of remainder in Holds	<u>1/8</u> ✓	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<u>DEEP FRAME SYSTEM. 11 x 5 1/2 x 50 B.A. WITH 6 x 3 1/2 x 50 REV. ANG. FORM 12' GIRDER. 3 SIDE STRINGERS. NO SHELL CORR. SHELL PLATING '63</u>		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? <u>YES.</u>	<u>54 UPPER HATCHWAYS. IN LIEU OF CEILING.</u>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<u>6 x 6 x 48 SINK FRAME WITH 2 CORR. ROWS OF RIVETS. ADDITIONAL INTERCOSTALS. 3 STRONG SHELL PLATING '75 AS APPROVED. 1" RIV.</u>		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	<u>9 3 1/2</u> ✓	
Floors, Depth and thickness at mid-line in Holds	✓		" " in way of Bridge, Angle, E or L	<u>9 3 1/2</u> ✓	
Height of Brackets at side above base line at toe of frame	✓		Spacing	<u>33</u> ✓	
Middle Line Keelson, on Floors, Angles, E or L	✓		Second Deck, amidships, Angle, E or L	<u>10 3 1/2</u> ✓	
" " Through Plate or Intercostal Plate	✓		Spacing	<u>33</u> ✓	
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, E or L	<u>11 3 1/2</u> ✓	
" " Flat Plate Keel Angles	✓		Spacing	<u>33</u> ✓	
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, E or L	✓	
" thickness of Intercostal Plate	✓		Spacing	✓	
" Angles	✓		Poop Deck, Angle, E or L	<u>6</u> ✓	
DOUBLE BOTTOM.			Spacing	<u>30</u> ✓	
Solid Floors, thickness and spacing	<u>44 @ 66</u>		Bridge Deck, Angle, E or L	<u>6</u> ✓	
" " Are Frame and Reversed Frame joggled?	<u>PART JOGGLED & PART CUT AT LANDINGS.</u>		Spacing	<u>36 TO 33</u> ✓	
Bracket Floors, breadth and thickness at middle line	<u>34 1/2</u> ✓		Forecastle Deck, Angle, E or L	<u>8</u> ✓	
" " breadth and thickness at margin plate	<u>42</u> ✓		Spacing	<u>27</u> ✓	

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.....		2 ROWS			Stringer Plate, breadth and thickness in way of Bridge		66	46	/
,, in 'tween Decks, Size and Spacing		WIDE SPACED			Thickness of Plating abreast Deck openings in way of Wells			42	
,, " " " " "		TUBULAR & BUILT			Thickness of Plating abreast Deck openings in way of Bridge			42	/
,, in Holds " "		PILLARS, & GIRDERS			Thickness of Plating within line of openings...			36	/
,, " " " " "		AS APPROVED. ✓			If Sheathed, material and thickness		✓		
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....		✓			Stringer Plate, breadth and thickness.....		67	40	/
Plating, thickness of		✓			If Plated, state thickness.....			36	/
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....		✓		
Stringer Plate, breadth and thickness in Wells		65	70	65 x .68 ✓	If Plated, state thickness		✓		
,, " " " " in way of Bridge		65	68	/	Poop Deck.				
,, Angle in Wells		6	6	68 ✓	Stringer Plate, breadth and thickness			38	/
Thickness of Plating abreast Deck openings in way of Wells			55	✓	Plating, Sheathing, material and thickness		{ 34 WITH TEAK 2 1/2" OVER. ACCORD. AT FORE END. }		
Thickness of Plating abreast Deck openings in way of Bridge			60	✓	Bridge Deck.				
Thickness of Plating within line of openings...			42	✓	Stringer Plate, breadth and thickness.....		72 1/2	30	/
If Sheathed, material and thickness		TEAK 2 1/2". AFTER WELL.		✓	Plating, Sheathing, material and thickness ..		TEAK 2 1/2"	28	/
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...		66	46	/	Stringer Plate, breadth and thickness.....			38	/
					Plating, Sheathing, material and thickness ..			34	/

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <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	54	.87	.77	.77	/	DOUBLE.	1	3 ⁵ / ₈	/	4	1	4	LAPPED.
IN WAY OF " DELG. (if any)	54	1.05	1.03		/	"	"	"	/	"	"	"	"
DUCK KEEL													
BOTTOM PLATING, No. } of Strakes {		.68	.63	.66	/	"	7/8	3 ³ / ₁₀	/	4-3	7/8	3 ¹ / ₂	"
BILGE PLATING, No. of Strakes {		.68	.63	.66	/	"	"	"	/	"	"	"	"
SIDE PLATING, No. of Strakes {		.66	30.63 10.50	.50	/	"	"	"	/	3	"	28	✓
UPPER DECK, Sheer- strake in Wells.....	72	.75	.50	.50	/	"	"	"	/	4-3	1	6 ¹ / ₂	"
UPPER DECK, Sheer- strake in Bridge ...	72	.75			/	"	"	"	/	4	1	4"	appx 1" See plan
STRAKE BELOW Sheer- strake in Wells.....	75	.72	.50	.50	/	"	"	"	/	4-3	7/8	3 ¹ / ₂	1
STRAKE BELOW Sheer- strake in Bridge ...	75	.72			/	"	"	"	/	4	"	"	1
POOF SIDE PLATING .....				.40	/	SINGLE	"	3	/	1	"	3 ¹ / ₂	✓
BRIDGE SIDE PLATING ...		.40			/	SINGLE. DOUBLE OR	3/4	3	/	3	3/4	2 ⁵ / ₈	✓
FOREC'TLE SIDE PLATING			.42		/	SINGLE	7/8	3	/	1	7/8	28	✓

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

Deck next below

As per Rule 7.

STIFFENERS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD	Upper between decks			✓		✓
"	" (57) Second <i>Hold</i> 108	.34	4x30	37	28"	✓
"	" Third "			✓		✓
"	" Holds .....	.43	8x32	48	30 3/8	✓
COLLISION	" (in Hold) .....	.56	8x32	40	25 1/2	3 SEAM. ROV. 72"
AFTER PEAK	" " .....	.45	8x32	40	22	1 SEAM. ROV. 2' TWINGEL REC. TOP.

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	UPPER	FL. PLT. '56		
	MIDDLE	CAST SHAPED	SPRINGFIELD S.O.	
STEM	LOWER	STEEL ROLLED 10 ³ / ₈ x 24	✓	
STERN FRAME	Propeller Post	CAST SHAPED	THE STEEL COMP.	
	Rudder	STEEL PLAIN	OF SCOTLAND L ^o	
Speed of Vessel		17 KNOTS.	✓	
RUDDER—Type		ORDINARY DOUBLE PLATE.	✓	
" A x D		1168	✓	
" Diam. of head		FORG. 16 ¹ / ₂ "	DEWEYS. MARGEC.	
" Mainpiece at top pintle		CAST STEEL	THE STEEL COMP.	
" " heel		SHAPED AS	OF SCOTLAND L ^o	
" how constructed		PER PLAN.	✓	
" double or single plate		.50	✓	
" coupling, vertical or				
" horizontal		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

Shamington Iron C. L., Etna Iron & Steel C. L., Deacon Iron & C. L., Weller &
Consett Iron C. L., Scottish Iron & Steel C. L., Stewart & Co., Tarncliffe C. L.

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

EQUIPMENT No 18719 ✓												LETTER dx	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.				
95388	1st Bower ...	81	2	0	✓ STOCKLESS			59	10	0	0	81½	1	BYERS TYPE	S. TAYLOR & SONS. HETH. 11.7.16 RELF.	
95390	2nd „ ...	81	0	20	"			59	10	0	0	81½	1	"	"	"
95389	3rd „ ...	69	2	7	✓ "			53	12	2	0	69½	1	"	"	" 24.8.16 "
	Collective weight.	232	1	27								232	1			
95519	Stream	23	3	0	5	3	19	23	13	3	0	23½	1	RODGERS.	"	" 30.9.16 "

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.	Statutory.	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.		
88236	230	2 1/2	40	110	835.0.0		230	2 1/2	STUD LINK	S. TAYLOR & SONS.	HETH. 30.9.16 RELF.	TOWLINE...	130	5 1/2	89.7	130	5 1/2		
									'TAYCO'				4090	3 1/2	35.2	4090	3 1/2		
												HAWSERS & WARPS	4090	8	4090	8	4090		
												"	4090	7	"	4090	7		
Stream Steel Wire	120	4 1/4			68.6		120	4 1/4	G.S.W.	BRITISH ROPES LIMITED.		"	4090	7	"	4090	7		

Steering Gear, Steam *HYDRAULIC, 4 R.P.M.S. 2 H.S. PUMPS, BY NASTIC* Steering Gear, Hand ✓

Boats *5 IN N°* Steering Chains, Size and Test *TELE MOTOR CONTROL* Windlass *STEAM, BY EMERSON WALKER*

Ceiling in Holds, thickness and material *2 1/2" W.P. OVER LIMBERS ONLY* Cargo Battens, thickness, material and spacing *2" W.P. 9" APART, IN HOLDS & TWEEN DECK. INCL. SHELTER TIDING.*

Cargo Hatchways.—(Upper Deck) *FORMED OF STEEL PLATES & ANGLES* Thickness of Hatches *2 3/8"*

Size of No. 1 Hatchway (Forward) *20' 3" x 15' 0"* No. 2 *18' 6" x 21' 0"* No. 3 *22' 0" x 21' 0"* No. 4 *15' 9" x 21' 0"* No. 5 *22' 0" x 21' 0"* No. 6 *17' 7" x 21' 0"* *TOM. OPEN.*

Number of Shifting Beams *and/or Fore and Afters* *3 IN N° 1-3 & 5, 9 IN N° 2, 7 IN N° 4*

THE GREENOCK DOCKYARD CO. LTD.
Rei Macinnes
 Builder's Signature SECRETARY

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *YES.*

(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. All the double bottom tanks, cofferdams, duct keel, deep tank & peak tanks have been tested to Rule requirements & found satisfactory. The double bottom tanks Nos. 1, 2, 3, 3a, 4 & 5 & cross bunker (below 2nd deck) have been arranged to carry oil fuel S.P. above 150° F. & requirements of Sec. 20 of the Rules complied with. The weather decks, W.T. bulkheads & shaft tunnels have tested. W.T. doors, ash shoots, & hand pump tested & found satisfactory. Freeboard verified & the marks cut in on vessels' sides. A duct keel is arranged from forward end of boiler room to after end of No. 1 hold.

P.T.O.

The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, *0/0/0*

G.R.9. Special Survey Fee.... £ 381 : 1 : 6 *3RD FEBRUARY 1937*

FREEBOARD. 18 : 0 : 0 Received by me, *11.2.1937*

Travelling Expenses, if any £ *12/2*

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

"WITH FREEBOARD"

State whether the Vessel has been built under Special Survey *YES.* Signature *M. L. Swinton.*

Certificate to be sent to *GRK OFFICE.* Date of issue *17/2/37* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 9 FEB 1937*

Character assigned *- 100A1.*

With freeboard

237 Lloyd's Assoc.

+ L.M.C. 237 - 7D.

Fitted for oil fuel 237 F.P. above 150° F.

W.L.B.

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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 items of structure have been electrically welded, carried out in accordance with the Society's regulations for the application of Electric Arc Welding & found satisfactory:—Pillar heads & heels; Seams & butts of engine seat plates on tank top; Brown collars at tank margin in engine space, tunnel flat, after peak flat, oil fuel bunker flat, & recess bulkhead flat of tank; Continuous gusset plates to tank margin in holds & bunkers; Seams of lower dk. plating in way of oil fuel bunker where single riveted; Butts of casing & deckhouse plates; Butts of upper dk. stringer angle; Cement flat bar in lower dk.; Bulkhead boundary bars at corners; Butts of rudder plates; Corners of tunnel plating; Sundry bulkhead stiffener brackets to shell; Corners of angle & bulk angle hatch coamings in lower dk.;

Plans forwarded as per separate list attached.

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

Duct keel forward of Machinery space.
Fitted for oil fuel 2-37 F.P. above 150° F.
D.F. E.S.D. G.Y.C. Cruiser stern.

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

1st Bower	51-0-3	INCL. MMS.	T.R.M.	5549.	16-1-36	ANTWERP.
2nd "	50-1-27	"	R.L.	4040.	10-1-36	"
3rd "	43-1-5	"	W.H.	5574.	28-2-36	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.5 ft., R.Q.D. ✓ ft., Bridge 99 ft., Forecastle 69 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks 2 Bks & Shelter dk.

Official No. 164108; Signal Letters Is bottom of vessel coated with cement — if not give particulars of composition Cement in peaks, in D.B. tanks in Machinery sp. & duct keel. elsewhere coated with boiled oil.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	SALT		Where Fitted.	SALT	
	*Length. Feet.	Water Capacity. Tons.		*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	118.25	236	Fore peak tank,		68
Double bottom, under Engines and Boilers, F.W.	77	273	After peak tank,		126
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward, MT	39	1360
Double bottom, forward,	197.25	657	Other tanks, if fitted,		
Total capacity of double bottom		1266	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).
392.5

Order for Special Survey No. 3383

Date 19th DECEMBER 1935.

Dates of Surveys held while building

(1936) JAN. 30. FEB. 11. 14. 19. 24. 25. 24. MAR. 3. 5. 10. 12. 16. 18. 20. 24. 26. 30. APR. 3. 4. 11. 20. 22. 24. 29. MAY 1. 4. 11. 13. 18. 20. 25. 26. 29. 29. JUNE 3. 5. 4. 24. 29.
JULY 16. 24. 31. AUG. 4. 4. 11. 13. 14. 20. 24. 24. 28. 31. SEPT. 2. 4. 10. 15. 16. 14. 21. 22. 23. 25. 29. 30. OCT. 1. 5. 6. 7. 8. 9. 10. 12. 14. 15. 21. 23. 28. NOV. 2. 6. 9. 16. 14. 18.
24. 24. 30. DEC. 4. 10. 14. 18. 22. 24. 29. 30. (1934) JAN. 7. 12. 18. 20. 21. 22. 23. 24. 25. 24. FEB. 5.

Total No. of Visits 108