

STEEL STEAMER ~~MOTORSHIP~~

Received at London Office 6 JAN 1932

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

4<sup>th</sup> Jan 1932

Port of

GLASGOW.

No. 52030

Survey held at

TROON.

Date First Survey

22<sup>nd</sup> April 1931 Last Survey2<sup>nd</sup> JANUARY. 1932.

On the

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

SINGLE SCREW

"THE SULTAN." "Machinery Aft."

State Type

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

FULL SCANTLING.

State Type of Erections RQD: Br. &amp; Fc/le.

TONNAGE under Tonnage Deck...

560.98.

CLASS +100A1

State if with freeboard as condition of Class

No

Built at TROON.

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 195'

/Launched 10.12.31.

Yard No. 418.

Total

560.98.

Breadth (greatest moulded)

B 30.25.

Builders Riba &amp; Co. Ltd

Gross Tonnage

823.51.

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

D 14.44.

Owners J. Hay &amp; Sons. Ltd

Register Tonnage

405.11.

1st Longitudinal Number (L x D) = 2768.

Managers

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

2nd Numeral L x (B + D) = 8661

Residence

Glasgow.

## REGISTERED DIMENSIONS.

FEET.

Length

195.1'

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

11.46 &amp; 15.44.

Port of Registry

Glasgow.

Breadth

30.36'

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

13.76.

If surveyed while building, afloat, or in dry dock

YES.

Depth

12.1'

Draught Moulded 13.5 3/4.

## 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.
<b>FRAMES, Spacing amidships</b>	22"		<b>Bracket Floors, Frame</b>		
" " from 3/4 length to Collision bulkhead	22"		" " Reversed Frame		
" " in peaks	22"		" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	30" x 39"	
Frame Amidships, <del>Angle</del>	* 6 3 36	4 1/4 16 x 3 x 32	" " top Angles	SINGLE 3 3 38.	
" " Extends up to	upper deck.		" " bottom Angles	SINGLE 3 3 39.	
Reversed Frame Amidships, Angle	* 1924 B.S.S.		<b>Side Girders, No. each side and thickness</b>	ONE 29"	
" " Extends up to			<b>Margin Plate depth (excl. of flange) and thickness</b>	27" x 33"	
Depth of Framing Girder	6"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 3 30	
Frames in Uppermost Continuous Tween			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 3 30	
" " Second Tween Deck, Angle			" " Complete spacing and scantling abaft 1/2 len. from stem	NONE.	
" " " " " "			" " Complete spacing and scantling forward 1/2 len. from stem	NONE.	
Framing in Peaks, Angle	5 3 37		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	3 1/2 30	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" - 5/4"		<b>INNER BOTTOM PLATING</b>		
State if Frame Joggled	YES.		Breadth and thickness of Middle Line Strake	40" x 34"	
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars	Deep Framing and Stringers		Thickness of remainder in Holds	30	
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars	Add: Intercoastal shell plating increased close spaced riveting.		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in B. & C. space and framing in Bunkers and Boiler Room?	YES.	
<b>SINGLE BOTTOM. IN BOILER SPACE.</b>			<b>BEAMS.</b>		
Floors, Depth and thickness at mid-line in Holds	19 1/4" x 41"		Uppermost Continuous Deck, amidships	Carlin's 3 1/2 3 38	
" " " " " "			" " in way of Bridge, Angle	6 3 32	
Height of Brackets at side above base line at toe of frame	NONE		" " Spacing	22"	
Middle Line Keelson, Angle	NONE		Second Deck amidships, Angle		
" " Through Plate	19 1/4" x 50" app. 49.		" " Spacing		
" " Foundation Plate on Floors	32" x 49"		Third Deck, amidships, Angle, E or F		
" " Flat Plate Keel Angles	3 1/2 3 1/2 44		" " Spacing		
Side Keelsons, No. each side	ONE		Fourth Deck, amidships, Angle, E or F		
" " thickness of Intercoastal Plate	42		" " Spacing		
" " Angles	Bulb. (SINGLE) 4 3 1/2 55 app. 57.		Poop Deck, Angle, E or F		
<b>DOUBLE BOTTOM.</b>			" " Spacing		
Solid Floors, thickness and spacing	29 using frame.		Bridge Deck, Angle, E or F	5" 3 36 20	
" " Are Frame and Reversed Frame joggled?	YES.		" " Spacing	44"	
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, E or F	6 3 32	
" " breadth and thickness at margin plate			" " Spacing	44"	



## 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.
<b>PILLARS, No. of Rows</b> .....	<i>Special</i>			Stringer Plate, breadth and thickness in way of Bridge .....	<i>Raised</i>		
.. <del>in 'tween Decks, Size and Spacing</del> .....	<i>Arrangement</i>			Thickness of Plating abreast Deck openings in way of Wells .....	<i>Quarter</i>		
.. " " " " " .....	<i>of Pillaring. As</i>			Thickness of Plating abreast Deck openings in way of Bridge .....	<i>Deck</i>		
.. <del>in Holds</del> " " " " .....	<i>per app'd Plan.</i>			Thickness of Plating within line of openings.....	<i>Plating 30</i>		✓
.. " " " " " .....	✓			<del>If Sheathed, material and thickness .....</del>	✓		
<b>Centre Line Bulkhead.</b>				<b>Third Deck.</b>			
<del>Stiffness and Spacing</del> .....	✓			Stringer Plate, breadth and thickness.....	✓		
<del>Plating thickness of</del> .....	✓			If Plated, state thickness.....	✓		
<b>STRINGERS AND DECKS.</b>				<b>Fourth Deck.</b>			
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	<i>60 x 50</i>			If Plated, state thickness .....	✓		
" " " " " in way of Bridge	✓			<b>Poop Deck.</b>			
" Angle in Wells .....	<i>3 1/2 3 1/2 30</i>			Stringer Plate, breadth and thickness .....	✓		
Thickness of Plating abreast Deck openings in way of Wells .....	✓ <i>30</i>			<del>Plating, Sheathing, material and thickness .....</del>	✓		
Thickness of Plating abreast Deck openings in way of Bridge .....	✓ <i>30</i>			<b>Bridge Deck.</b>			
Thickness of Plating within line of openings...	✓ <i>30</i>			Stringer Plate, breadth and thickness.....	<i>3 1/4 x 27</i>		✓
If Sheathed, material and thickness .....	<i>NONE.</i>			<i>Tie.</i>			
<del>Second Deck. (R.Q.D.)</del>				Plating, Sheathing, material and thickness	<i>1/2 27 p.p. 2 1/2</i>		✓
Stringer Plate, breadth and thickness in Wells...	<i>38 x 38</i>			<b>Forecastle Deck.</b>			
				Stringer Plate, breadth and thickness.....	<i>1 1/4 x 27</i>		✓
				<i>Tie</i>			
				Plating, Sheathing, material and thickness	<i>1/2 27 p.p. 2 1/2</i>		✓

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No.</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 .....	40	50	43	43.	apps. 49.	double	3/4	3 1/2"	Three	3/4	2 5/8	Strapped.	
" <del>General way</del>													
BOTTOM PLATING, No. of Strakes <i>A.B. (23)</i>	69	37	37	33.		double.	3/4	3 1/2"	Two	3/4	2 5/8	Lapped.	
BILGE PLATING, No. of Strakes <i>B.C. (21)</i>	61	37	33	33.		"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes <i>D. (11)</i>	48	37	33	33.		"	"	"	"	"	"	{ Strapped in way of setting plate	
UPPER DECK, Sheer-strake in Wells <i>E. (1)</i>	44 1/2	50	33	33.					Three - Two	"	"	{ Strapped in way of setting plate	
UPPER DECK, Sheer-strake in Bridge ...			41	33.									
			IN WAY OF RAISED 2 <sup>d</sup> DECK										
STRAKE BELOW Sheer-strake in Wells <i>F. (2)</i>	50	44	33	33.		double	3/4	3 1/2"	Three - Two.	3/4	2 5/8	Lapped	
STRAKE BELOW Sheer-strake in Bridge <i>G. (1)</i>			37	33.									
			IN WAY OF RAISED 2 <sup>d</sup> DECK										
POOP SIDE PLATING	47	43		33.		"	"	"	"	"	"	"	
BRIDGE SIDE PLATING ...		27				single	3/4	3 1/2"	Two	3/4	2 5/8	Lapped	
FOREC'TLE SIDE PLATING			27			"	"	"	"	"	"	"	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

Deck next below

As per Rule.

1/2 UPPER DECK.

FORGINGS ~~and castings.~~

	Casting or Forging.	Scanlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b>				
<b>STEM</b>		Rolled 6x1 7/8"	Scottish Steel Co.	
<b>STERN FRAME</b> {	Propeller Post	Forging 6x4	J.S. Foster & Sons.	
	Rudder	"	"	
<b>RUDDER—A x D</b>		See approved Plan.		
<b>Speed of Vessel</b>	10 knots	Semi-Balanced Type.		
<b>RUDDER</b> mainpiece at head		✓ 6"	J.S. Foster & Sons	
" " heel		✓ 4 1/2"		
" how constructed		Forging	✓	
" double or single plates		✓ 30		
" coupling, vertical or horizontal		horizontal		

## STIFFENERS.

				Plating Thickness.	VERTICAL.		HORIZONTAL.	
					Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, <del>Upper</del> between decks				✓				
"	"	<del>Scantling</del>	"	✓				
"	"	<del>Plating</del>	"	✓	<u>Bulk Angles.</u>			
"	"	Holds .....	✓	40' 30.	4" 3" 32"	30"	None	
COLLISION								
"	"	(in Hold) .....	✓	38' 30.	6" 3" 36"	24"	R.P. Tank Top.	
AFTER PEAK								
"	"	.....	✓	39' 30.	6" 3" 44"	24"	Semi. box beam.	

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH.

STEEL.

Steel Company of Scotland Ltd.: Lanarkshire Steel Co. Ltd.: Colvilles Ltd.:  
Appley Iron Co. Ltd.: Downham Long Co. Ltd.: Pearce Partners Ltd.

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



EQUIPMENT No <i>9555</i>										LETTER <i>K.</i>	ANCHORS.
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Where and when tested and Superintendent.
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
<i>46398</i>	1st Bower	<i>19</i>	<i>1</i>	<i>21</i>	<i>Stockless</i>			<i>20</i>	<i>6</i>	<i>1</i>	<i>0</i>
<i>46399</i>	2nd "	<i>19</i>	<i>2</i>	<i>0</i>	"			<i>20</i>	<i>6</i>	<i>1</i>	<i>0</i>
<i>46400</i>	3rd "	<i>16</i>	<i>2</i>	<i>16</i>	"			<i>14</i>	<i>18</i>	<i>1</i>	<i>21</i>
	Collective weight.	<i>55</i>	<i>2</i>	<i>9</i>							
<i>46420</i>	Stream	<i>5</i>	<i>1</i>	<i>12</i>	<i>1</i>	<i>1</i>	<i>18</i>	<i>7</i>	<i>14</i>	<i>0</i>	<i>7</i>

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.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Owts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
46398	210	1 1/2	31	46 1/2	189.2.0			18 1/2	210	1 1/2	STD LINK.	HENRY REECE	CRADLEY HEATH 30.10.31. S.C. Paul.	TOWLINE...	90	3	18 1/2	90	3
														HAWSERS & WARPS }	90	6	Manilla.	90	6
															90	6		90	6
Stream	60	3/4							60	3/4		Manilla							

Steering Gear, Steam	<i>Three Reid valves.</i>	Steering Gear, Hand	<i>Operated with steam</i>
Boats	<i>Three (2 lifeboats &amp; 1 dinghy)</i>	Steering Chains, Size and Test	<i>9/16" short links. 7-18 lb. test.</i>
Ceiling in Holds, thickness and material	<i>2 1/2" W.P.</i>	Cargo Battens, thickness, material and spacing	<i>2" W.P. edge &amp; edge 9".</i>
Cargo Hatchways.—(Upper Deck)	<i>Steel coverings.</i>	Thickness of Hatches	<i>2 1/8"</i>
Size of No. 1 Hatchway (Forward)	<i>39'4" x 16'6"</i>	No. 2	<i>36'8" x 16'6"</i>
Number of Shifting Beams and/or Fore and Afters	<i>Seven in No. 1 Hatchway.</i>	No. 3	<i>Six in No. 2 Hatchway.</i>

AILBA SHIPBUILDING CO., LIMITED.  
 Builder's Signature *Michael* General Manager.

**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.

*The materials and workmanship are good.*  
*This vessel has been built in accordance with the approved plans the Secretary's letters of various dates and in accordance with the Rules.*  
*The double bottom and peak tanks have been tested as required by Rules.*  
*The weather decks and watertight bulkheads have been here tested with satisfactory results.*  
*The freeboard has been verified and "cut in" on vessel's sides.*  
*The approved plans, as detailed on back of Report are forwarded herewith.*

The amount of Entry Fee ..... £ *4 : 0 : 0* Fees applied for, *5-JAN-1932*  
 Special Survey Fee.... £ *22 : 8 : 0* Received by me, *8-1-1932*  
 Freeboard. Fee.... £ *0 : 0 : 0*  
 Travelling Expenses, if any £ *4 : 0 : 0*  
 State whether the Vessel has been built under Special Survey *Yes.* Signature *M. Macleod.*  
 Certificate to be sent to *GLASGOW* Date of issue *11/1/32*  
 I am of opinion the Vessel should be Classed *100A1.*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 5-JAN-1932*  
 Character assigned *100A1*  
*1.32.*  
*Lloyds A & C.P.*  
*+ L.M.C. 1.32.*  
 The Surveyor are requested not to write on or below the Committee's Minute.



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 VESSELS:—

" THE COUNTESS." Gls Report No. 48510. Ailsa G. No. 406.  
" THE VICEROY." " " " 49048. " " 407.  
" THE MONARCH." " " " 50004. " " 412.  
" THE EMPEROR." " " " 50170. " " 414.

The Following Plans and Reports are forwarded herewith:—

Plan as built. Midship Section. (forwarded previously)

Approved Plans:—

Midship Section

✓ Profile and Deck Plan.

✓ Fore and framing Sections.

✓ Sternpost & rudder.

✓ Engine Seating.

✓ Pumping Arrangement.

✓ Stern frame & Rudder (No. 418 only.)

Reports:—

Stern frame

Rudder.

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

1st Bower. 11. 3. 4. J. L. 264. 4. 8. 30.  
2nd " 11. 3. 16. J. Q. 472. 8. 8. 30.  
3rd " 10. 1. 3. A. B. 6211. 11. 8. 30.

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Body ✓ ft., R.Q.D. 110.5 ft., Bridge 11 ft., Forecastle 30 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 Dk. (Steel)

Official No. 161962. Signal Letters

Is bottom of Vessel 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,	✓		Fore peak tank,	<u>22.</u>	<u>56.</u>
Double bottom, under Engines and Boilers,	✓		After peak tank,	<u>7.3.</u>	<u>22.</u>
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓	
Double bottom, forward,	<u>122.3</u>	<u>174</u>	Other tanks, if fitted,	✓	
Total capacity of double bottom		<u>174</u>	(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. 6139

Date 18 - 4 - 31

Dates of Surveys held while building

1931 Apr.: 22 May: 14. 21. 26 June: 2. 15. 23. 29 July: 2. 7. 31 Aug.: 11. 17. 24. 26. 28  
Sep.: 1. 7. 8. 16. 25 Oct.: 26 Nov.: 4. 12 Dec.: 2. 15. 22. 25 (1932) Jan.: 2.

Total No. of Visits

29