

STEEL ~~STEAMER~~ OF MOTORSHIP.

21 NOV 1928

Received at London Office

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

2<sup>ND</sup> NOVEMBER 1928

Port of

GLASGOW.

No. 4 8 5 4 0

Survey held at

ARDROSSAN.

Date First Survey

28<sup>TH</sup> FEBRUARY.

Last Survey

9<sup>TH</sup> NOVEMBER.

1928

On the

(State if Machinery fitted with or without Tonnage Openings)

STEEL SINGLE SCREW MOTORSHIP

"SIGRID."

(MACHINERY ART).

State Type

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

FULL SCANTLING.

State Type of Erections

R.Q.D<sup>2</sup>, TRUNK ON

DECK AND FORECASTLE

TONNAGE under Tonnage Deck

779.09

CLASS

+ 100 A.I.

State if with freeboard

No

Built at

ARDROSSAN.

"CARRYING PET. IN BULK"

its condition of Class

FEET.

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

L 207.36

Breadth (greatest moulded)

B 36.5

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

D 15.0

1st Longitudinal Number (L x D)

= 3110

2nd Numeral L x (B + D)

= 10679

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

13.25

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

13.82

Do. Long Bridge to top of keel

✓

Draught Moulded

14'-0 7/8"

YES.

RED DIMENSIONS.

FEET.

205.80

36.50

14.15

## 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	18				Bracket Floors, Frame				
" from 1/2 length to Collision bulkhead	18				" " Reversed Frame				
" in peaks	18				" " Vertical Struts				
MING.					Centre Girder, depth and thickness amidships	36	40		APP.
midships, Angle, [ or ]	5 1/2	3	36	6 x 3 x 33 angle	" " top Angles	DOUBLE	3 1/2	38	3 x 3 x 36
" Extends up to	UPPER DECK.				" " bottom Angles	DOUBLE	3 1/2	40	3 x 3 x 40
Frame Amidships, Angle					Side Girders, No. each side and thickness	2	50	34	34
" Extends up to					Margin Plate depth (excl. of flange) and thickness	36	42		34
Framing Girder	5 1/2				" " Vertical Angle to Tank side Bracket	3 1/2	3 1/2	32	
in Uppermost Continuous 'tween Decks, Angle, [ or ]					" " Vertical Angle to Tank side Bracket forward				
Second 'tween Decks, Angle, [ or ]					" " Gussets, spacing and scantling	NONE			
Third " " " "					" " Gussets, spacing and scantling forward				
in Peaks, Angle, [ or ]	6	3	40	5 x 3 x 30 BA	Tank Side Brackets, height above base line at toe of Frame and thickness	66	32		
er and Spacing of Rivets through Frame and Shell Plating amidships	3/4	4/8			INNER BOTTOM PLATING.				
Frame Joggled	YES.				Breadth and thickness of Middle Line Strake	NONE			
ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAMES AND STRINGERS.				Thickness of remainder in Holds	42		APP. 34	
THENING OF BOTTOM FOR D. State Particulars	DOUBLE FRAMES SHELL INCREASED CLOSE SPACED RIVETS				Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bankers and Boiler Room?	YES.			
BOTTOM.					BEAMS.				
Depth and thickness at mid-line in Holds	19	38			Uppermost Continuous Deck, amidships	4 1/2	3	34	
Height of Brackets at side above base line at toe of frame	42				" " in Well, Angle, [ or ]				
Line Keelson, on Floors, Angles, [ or ]					" " in way of Bridge, Angle, [ or ]				
" " Through Plate or Intercoastal Plate					Spacing	EVERY FRAME			
" " Foundation Plate on Floors					Second Deck, amidships, Angle, [ or ]				
" " Flat Plate Keel Angles					Spacing				
Keelsons, No. each side	2				Third Deck, amidships, Angle, [ or ]				
" thickness of Intercoastal Plate	34				Spacing				
" Angles	SINGLE B.A.	8	3	40	Fourth Deck, amidships, Angle, [ or ]				
BOTTOM. IN MACHINERY SPACE					Spacing				
Floors, thickness and spacing	40	EVERY FRAME	APP. 34		Poop Deck, Angle, [ or ]				
" " Are Frame and Reversed Frame joggled?	YES				Spacing				
Bracket Floors, breadth and thickness at middle line					Bridge Deck, Angle, [ or ]				
" " breadth and thickness at margin plate					Spacing				
					Forecastle Deck, Angle, [ or ]	6	3	38	
					Spacing	ALTERNATE FRAMES			



## PILLARS AND DECKS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
<b>PILLARS, No. of Rows.....</b>					
" in 'tween Decks, Size and Spacing.....					
" " " " " "					
" in Holds " "					
" " " " " "					
<b>Centre Line Bulkhead.</b>					
Stiffeners and Spacing.....		B.A.	SPACED 18"	APP.	
Plating, thickness of .....		5	3	35	5 x 3 x 30 BA
<b>STRINGERS AND DECKS.</b>					
<b>Uppermost Continuous Deck.</b>					
Stringer Plate, breadth and thickness in Wells.....		81	38		
" " " " in way of Bridge.....					
" Angle in Wells.....		5	5	40	
Thickness of Plating abreast Deck openings) in way of Wells.....					
Thickness of Plating abreast Deck openings) in way of Bridge.....					
Thickness of Plating within line of openings...		38	20	41	
If Sheathed, material and thickness .....					
<b>Second Deck.</b>					
Stringer Plate, breadth and thickness in Wells...					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness .....					
<b>Third Deck.</b>					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
<b>Fourth Deck.</b>					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness .....					
<b>Poop Deck.</b>					
Stringer Plate, breadth and thickness .....					
Plating, Sheathing, material and thickness ...					
<b>Bridge Deck.</b>					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness ...					
<b>Forecastle Deck.</b>					
Stringer Plate, breadth and thickness.....		32	30		
Plating, Sheathing, material and thickness ...		28	2 1/2	P.P.	

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <b>No</b>	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.									
FLAT PLATE KEEL .....	42	.60	.60	.49	✓	DOUBLE	7/8	3	3	7/8	3/8	LAPPED	
" <del>Bottom</del> (if any) .....													
BOTTOM PLATING, No. of Strakes .....	75	.40	.40	.34	✓	DOUBLE	3/4	2 1/4	3-2	3/4	2 5/8	LAPPED	
BILGE PLATING, No. of Strakes .....	66	.40	.57	.37	✓	"	"	"	3-2	"	"	"	
SIDE PLATING, No. of Strakes .....	72 1/2	.38	.57	.34	✓	"	7/8	3	2	"	"	"	
UPPER DECK, Sheer-strake in Wells .....	102	.63	.63	.63	✓				3-2	7/8	3/8	"	
UPPER DECK, Sheer-strake in Bridge .....	58	.44		.34	✓				2	3/4	2 5/8	"	
STRAKE BELOW Sheer-strake in Wells .....													
STRAKE BELOW Sheer-strake in Bridge .....													
POOP SIDE PLATING .....													
BRIDGE SIDE PLATING .....													
FOREC'TLE SIDE PLATING .....			.30		✓	SINGLE	3/4	3	2	3/4	2 5/8	LAPPED.	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) **10**

„ Deck next below **NONE**

As per Rule **3 TO UPPER DECK.**

		Plating Thickness.	STIFFENERS.		
			VERTICAL.	HORIZONTAL.	
			Scantlings. Spacing.	Scantlings / Spacing.	
MIDSHIP BULKHEAD,	Upper tween decks				
"	Second "				
"	Third "				
"	Holds .....		B.A.	HORIZONTAL GIRDS	
		• 41 - 36	6 x 3 x 36	23	21 x 36
COLLISION	(in Hold) .....	• 50 - 26	8 x 3 x 40	24	NONE
AFTER PEAK	" .....	• 44 - 26	7 x 3 x 40	24	NONE

FORGINGS and CASTINGS.

20. 11	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<del>HEEL, Bar</del>				
STEM	CASTING	SPECIAL CONST. FOR NAVIGATION IN ICE	CLYDE ALLOY & STEEL CO	
STERN FRAME { Propeller Post	FORGING	7 1/8 x 5	DENNISTOWN FORGE CO	
{ Rudder	FORGING	6 1/2 x 5	"	
RUDDER—A x D		233		
Speed of Vessel		9 1/4 KNOTS		
RUDDER mainpiece at head	FORGING	8	DENNISTOWN FORGE CO	
" " heel		6		
" how constructed		BUILT		
" double or single plate		SINGLE PLATE		
" 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).

DAVID COLVILLE & SONS LTD. STEEL COMPANY OF SCOTLAND LTD. CONSETT IRON CO LTD.

## OPEN HEARTH PROCESS

Has the Steel been tested as required by the Rules?

Yes.



EQUIPMENT No. 11789												LETTER <u>W</u>		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.					
31252	1st Bower ...	24	3	21		✓		24	15	0	0	24 1/2	BYERS IMPROVED STOCKLESS	✓	SUNDERLAND 26-6-28 J.H.B.	
31232	2nd " ...	24	3	14		✓		24	12	3	7	24 1/2	"	✓	" 21-6-28 "	
31251	3rd " ...	24	3	0		✓		24	10	2	14	24 1/2	"	✓	" 26-6-28 "	
	Collective weight.	74	2	7		✓						73			" 26-6-28 "	
43731	Stream .....	6	2	7	✓	1	3	0	8	17	2	0	6 1/2	ORDINARY	✓	L.C.H. 22-5-28 L.C.P.

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.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
41616	210	1 1/4	40 1/2	58 1/2	243 - 3 - 14	242	210	1 1/4	STOP LINK	WESTWOOD & SONS	C.H. 21-7-28 L.C.P.	TOWLINE...	90	3 1/4	22	90	3 1/4
Iron Stream Chain or Steel Wire												HAWSERS & WARPS	90	2 1/4	9 1/2	90	2 1/4
		Cir.										" SW	90	1 1/4	5 1/2	90	1 3/4
	75	3 1/2		26			75	3 1/2				"	90	5			

Steering Gear, Steam Y" x T" HASTIE & CO Steering Gear, Hand NONE TACKLE TO AFTER WINCH 81 x 9 EMERSON, WALKER & CO

Boats 1 c 16.0 x 5.75 x 2.3 Steering Chains, Size and Test NONE Windlass 81 x 9 EMERSON, WALKER & CO

Ceiling in Holds, thickness and material 25 CHEQ. STEEL PLATES Cargo Battens, thickness, material and spacing 2 1/2 COPE IRON. SPACED 9"

Cargo Hatchways. (Upper Deck) STEEL COAMINGS Thickness of Hatches N-1 50 PLATE (STIFFENED) OIL HATCHES 54 PLATE

Size of No. 1 Hatchway (Forward) 7'-6" x 7'-6" No. 2 4'-6" x 3'-6" No. 3 NONE No. 4 NONE No. 5 NONE No. 6 NONE

Number of Shifting Beams and/or Fore and Afters NONE

Builder's Signature W. H. HASTIE FOR ADDRESS ONLY DOCKYARD, LIMITED.

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, THE SECRETARY'S LETTERS OF VARIOUS DATES, AND IN ACCORDANCE WITH THE RULES.

THE WORKMANSHIP AND MATERIALS ARE GOOD.

THE OIL CARGO TANKS, COFFERDAM, OIL FUEL BUNKER, FORWARD AND AFTER PEAK TANKS AND DOUBLE BOTTOM TANKS IN MACHINERY SPACE HAVE BEEN TESTED AS REQUIRED BY THE RULES.

THE WEATHER DECK HAS BEEN HOSE TESTED AS PER RULE.

THE REQUIREMENTS OF SECTION 41 OF THE RULES HAVE BEEN COMPLIED WITH IN ORDER TO ENTITLE THE VESSEL TO A NOTATION IN THE REGISTER BOOK OF "STRENGTHENED FOR NAVIGATION IN ICE".

THE FREEBOARD HAS BEEN VERIFIED AND CUT IN ON THE VESSELS' SIDES.

THE APPROVED PLANS, AS DETAILED ON BACK OF REPORT, ARE FORWARDED HERewith.

85-2-01 1702 .8.M 75-1-21  
85-2-01 8225 .8.M 65-1-21  
85-2-01 8032 .8.M 01-1-21

The amount of Entry Fee..... £ 5 : 0 : 0 Fees applied for, 29 OCT 1928

Special Survey Fee.... £ 182 : 8 : 0 Received by me, 12 NOV 1928

Freeboard 4 : 11 : 8

Travelling Expenses, if any £ 6 : 0 : 0

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

"CARRYING PETROLEUM IN BULK."

"STRENGTHENED FOR NAVIGATION IN ICE"

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

Certificate to be sent to Glasgow Date of issue 27/11/28 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 NOV 1928

Character assigned + 100 A1.

Carrying Petroleum in Bulk. Lloyd's ascl.

Strengthened for navigation in ice. + L.M.C. 11, 28

The Surveyors are requested not to write on or below the Committee's Minute.

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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 PLANS AND REPORTS ARE FORWARDED HEREWITH: viz, (12 PLANS).

PLANS AS BUILT.

MIDSHIP SECTION.

✓ PROFILE AND DECK PLANS.

APPROVED PLANS.

✓ MIDSHIP SECTION.

✓ PROFILE AND DECK PLANS.

✓ DOUBLE BOTTOM IN WAY OF MOTOR SEATING.

✓ OIL FUEL BUNKER.

✓ STERNFRAME AND RUDDER.

✓ STEM.

✓ STERN STIFFENING.

✓ TRUNKED HATCH TO FORE HOLD.

✓ OILTIGHT HATCHES.

✓ QUADRANT AND TILLER.

REPORTS.

STERNFRAME (200)

STEM

RUDDER

TILLER

QUADRANT.

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

1st Bower	15-1-27	M.B.	3671	30-5-28
2nd "	15-1-23	M.B.	3668	30-5-28
3rd "	15-1-10	M.B.	3669	30-5-28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Peep ft., R.Q.D. 70.5 ft., Bridge ft., Forecastle 44.5 ft. (in feet and tenths). When the Peep is joined to the B.D., this should be distinctly stated TRUNK ON DECK 90.0 FT.

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

Official No. Signal Letters

Is bottom of Vessel coated with cement Partly if not give particulars of composition CEMENT FITTED IN FORE PEAK TANK, RESERVE FEED TANK AND AFTER PEAK TANK.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	15.0	36
Double bottom, if under Engines only,	43.5	67.8	Deep tank, aft,	7.5	13
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom		67.8	(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. 5895

Date 3. 2. 28

Dates of Surveys held while building

1928 Mar. 14. 20. 22. 29 Apr. 4. 8. 10. 11. 13. 16. 18. 23. 26 May 1. 2. 7. 11. 14. 16. 23. 30 June 5. 7. 8. 14. 20. 25. 28. 29 July 2. 3. 9. 11. 25. 27 Aug. 1. 5. 15. 20. 22. 29. 30. 31 Sep. 1. 2. 3. 4. 7. 8. 10. 12. 13. 18 Oct. 1. 5. 10. 17. 19. 23. 26. 30 Nov. 2. 7

Total No. of Visits 63