Rpt. 1.

STEEL STEAMER or MOTORSHIP.

42760

RETAIN

Received at London Office 12 NOV 1927

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 8 NOV. 1927 Port of Liverpool No. 92822.

Survey held at Northwich Date First Survey 4th November/24 Last Survey 2nd November 1927.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) S.S. "SWAZI". Machinery fitted aft. Single Screw. Raised q.d. Dk.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantlings State Type of Erections Poop and

TONNAGE under Tonnage Deck	177·80
Do. of space or spaces between Tonnage Dk. and Upper Dk.	✓
Total	✓
Gross Tonnage	237·72
Register Tonnage	105·05

REGISTERED DIMENSIONS.

	FEET.
Length	99·8
Breadth	22·4
Depth	9·8

CLASS ✠100A.1. State if with freeboard as condition of Class ho

	FEET.	
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	L	99.75
Breadth (greatest moulded)	B	22.25
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)	D	10.50
TRANSVERSE ~~1st Longitudinal~~ **Number** (B + D)	=	32.83
LONGIT. ~~2nd~~ **Numeral** L × (B + D) (1924 RULES)	=	3275
Framing Depth "d," at middle of length. See Sec. 3 (1d)		9.5
Proportions—Depth to Length—Uppermost continuous deck to top of keel		9.5
Do. Long Bridge to top of keel		✓
Draught Moulded		9'-10"

Built at Northwich.

Launched 23rd July 1927. Yard No. 345

Builders W. J. Yarwood & Sons, Ltd.

Owners R. P. Houston & Co.

Managers ✓

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

Residence 4 Lº Heavy Axe, London.

Port of Registry London.

If surveyed while building, afloat, ~~or in dry dock~~

Yes.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	✓	19	✓	✓
" " from ¾ length to Collision bulkhead	✓	19	✓	✓
" " in peaks	✓	19	✓	✓
SIDE FRAMING.				
Frame Amidships, Angle, ~~L or L~~	4	3	7/20	✓
" " Extends up to	Upper & R.Qr Decks.			✓
Reversed Frame Amidships, Angle	2½	2½	5/16	✓
" " " Extends ~~upto~~	Across Floors			✓
Depth of Framing Girder	✓	4	✓	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or [	✓	✓	✓	✓
" " **Second 'tween Decks,** Angle, [or [	✓	✓	✓	✓
" " **Third** " " " "	✓	✓	✓	✓
Framing in Peaks, Angle ~~L~~	4	3	7/20	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8	4½	✓	✓
State if Frame Joggled	✓	ho	✓	✓
SETTING ARRANGEMENTS (Sec. 7), state system and particulars	✓	✓	✓	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Double frames fitted forward of ¼ length			
DOUBLE BOTTOM.				
Floors, Depth and thickness at mid-line in Holds	12	6/20	✓	✓
Height of Brackets at side above base line at toe of frame	✓	26	✓	✓
Middle Line Keelson, on Floors, ~~Angles,~~ ~~L~~ [	5	3	3/8	✓
" " Through Plate ~~or Intercostal Plate~~	15	9/16	✓	✓
" " Foundation Plate on Floors	✓	✓	✓	✓
" " " Flat Plate Keel Angles	3	3	5/16	✓
Side Keelsons, No. each side	✓	One	✓	✓
" " thickness of Intercostal Plate	✓	5/20	✓	✓
" " Angles Bulb	5	3	3/8	✓
Solid Floors, thickness and spacing				
" " Are Frame and Reversed Frame joggled ?				
Bracket Floors, breadth and thickness at middle line				
" " breadth and thickness at margin plate				

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
Bracket Floors, Frame				
" " Reversed Frame				
" " Vertical Struts				
Centre Girder, depth and thickness amidships				
" " top Angles				
" " bottom Angles				
Side Girders, No. each side and thickness				
Margin Plate depth (excl. of flange) and thickness				
" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem				
" " Vertical Angle to Tank side Bracket forward ¼ len. from stem				
" " Gussets, spacing and scantling abaft ¼ len. from stem				
" " Gussets, spacing and scantling forward ¼ len. from stem				
Tank Side Brackets, height above base line at toe of Frame and thickness				
INNER BOTTOM PLATING.				
Breadth and thickness of Middle Line Strake				
Thickness of remainder in Holds				
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 ?				
BEAMS.				
Uppermost Continuous Deck, amidships ~~in Wells~~, Angle, ~~L or L~~	✓ 4	3	7/20	✓
" " in way of Bridge, ~~Angle,~~ ~~L or L~~ ½ Beams	✓ 3	2½	5/16	✓
Spacing	✓	19	✓	✓
Second Deck, amidships, Angle, [or [	✓	✓	✓	✓
Spacing	✓	✓	✓	✓
Third Deck, amidships, Angle, [or [	✓	✓	✓	✓
Spacing	✓	✓	✓	✓
Fourth Deck, amidships, Angle, [or [	✓	✓	✓	✓
Spacing	✓	✓	✓	✓
Poop Deck, Angle, [or [	✓	✓	✓	✓
Spacing	✓	✓	✓	✓
R.Qr ~~Bridge~~ **Deck,** Angle, ~~L or L~~	✓ 4	3	7/20	✓
Spacing	✓	19	✓	✓
Forecastle Deck, Angle, ~~L or L~~	✓ 3	2½	5/16	✓
Spacing	✓	19	✓	✓

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PILLARS AND DECKS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows......one......	✓	✓	✓	✓
„ in 'tween Decks, Size and Spacing......	✓	✓	✓	✓
„ „ „ „ „	✓	✓	✓	✓
„ in Holds „ „	✓	2 5/8	✓	✓
„ „ „ „ „	✓	✓	✓	✓
Centre Line Bulkhead. Stiffeners and Spacing..........	✓	✓	✓	✓
Plating, thickness of	✓	✓	✓	✓
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	60	3/8	✓	✓
„ „ „ „ in way of Bridge	✓	✓	✓	✓
„ Angle in Wells	3	3	5/16	✓
Thickness of Plating abreast Deck openings in way of Wells	✓	3/8	✓	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓	✓	✓	✓
Thickness of Plating within line of openings...	✓	3/8	✓	✓
If Sheathed, material and thickness	✓	✓	✓	✓
Second Deck. Stringer Plate, breadth and thickness in Wells...	✓	✓	✓	✓

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge	✓	✓	✓	✓
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...	✓	✓	✓	✓
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	✓	✓	✓	✓
Plating, Sheathing, material and thickness ...	✓	✓	✓	✓
Bridge Deck. Stringer Plate, breadth and thickness..........	✓	✓	✓	✓
Plating, Sheathing, material and thickness ...	✓	✓	✓	✓
Forecastle Deck. Stringer Plate, breadth and thickness..........	27	1/4	✓	✓
Plating, Sheathing, material and thickness ...	5 ×	2 1/2	P.P.	✓

SHELL PLATING.

Strakes.	Scantlings — As in Vessel — Amidships Breadth (Inches)	Amidships Thickness (Inches)	Forward Thickness (Inches)	Aft Thickness (Inches)	Any Departure from Approved Plans to be Noted.	Riveting — Edges (State if joggled? Yes) — Single or Double	Edges Rivets Diam. (Inches)	Edges Rivets Spacing cr. to cr. (Inches)	Butts — No. of Rows of Rivets	Butts Rivets Diam. (Inches)	Butts Rivets Spacing cr. to cr. (Inches)	Strapped or Lapped
Flat Plate Keel	36	7/16	1/2	7/16	✓	Double	3/4	3	Two	3/4	2 5/8	Strapped
„ Dblg. (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bottom Plating, No. of Strakes ..2......	49	7/20	8/20 & 6/20	7/20	✓	Single	5/8	2 1/2	Two	5/8	2 1/4	Lapped
Bilge Plating, No. of Strakes ......1......	52	3/8	6/20	3/8	✓	Double	3/4	3	Two	3/4	2 5/8	Lapped
Side Plating, No. of Strakes ......1......	38	6/20	5/20	6/20	✓	Single	5/8	2 1/2	Two	5/8	2 1/4	Lapped
Upper Deck, Sheerstrake in Wells......	37	3/8	7/20	3/8	✓	Double	3/4	3	Two	3/4	2 5/8	Lapped
Upper Deck, Sheerstrake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Strake below Sheerstrake in Wells......	38	6/20	5/20	6/20	✓	Single	5/8	2 1/2	Two	5/8	2 1/4	Lapped
Strake below Sheerstrake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
~~Poop~~ R.Qr.Dk Side Plating......	✓	5/16	✓	✓	✓	Single	5/8	2 1/2	Two	5/8	2 5/8	Lapped
Bridge Side Plating ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Forec'tle Side Plating	✓	1/4 & 5/16	✓	✓	✓	Single	5/8	2 1/2	Two	5/8	2 5/8	Lapped

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (~~Sec. 3 c~~ & R.Qr.Dk.)......Three

„ Deck next below......✓

As per Rule......✓

	Plating Thickness.	Stiffeners — Vertical — Scantlings.	Vertical — Spacing.	Horizontal — Scantlings	Horizontal — Spacing.
MIDSHIP BULKH'D, Upper tween decks	✓	✓	✓	✓	✓
„ „ Second „	✓	✓	✓	✓	✓
„ „ Third „	✓	✓	✓	✓	✓
„ „ Holds	1/4" & 3/8"	B.A. 5"×3"×.42"	30"	✓	✓
COLLISION „ (in Hold)	.4"·.28"·.26	B.A. 5"×3"×.42"	24"	✓	✓
AFTER PEAK „ „	1/4" & 3/8"	B.A. 6"×3"×.36"	24"	✓	✓

OK by W.T.

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM	✓	6"×1" Flat		✓
STERN FRAME Propeller Post	Forging	5 1/2"×2 3/4"	J. S. Forster & Son Ld. Sunderland.	✓
STERN FRAME Rudder „	Forging	5 1/4"×2 3/4"	J. S. Forster & Son Ld. Sunderland.	✓
RUDDER—A×D 38·6	✓	✓	✓	✓
Speed of Vessel 8 1/2 knots	✓	✓	✓	✓
RUDDER mainpiece at head ...	Forging	3 1/2"	J. S. Forster & Son Ld. Sunderland	✓
„ „ heel ...	Do.	2 3/4"	J. S. Forster & Son Ld. Sunderland	✓
„ how constructed	Arms shrunk on and Keyed.			
„ double or single plate	Single	·75	✓	✓
„ coupling, vertical or horizontal..........	✓	✓	✓	✓

Modified as per plan with rpt.

C. Tn. 2458 dated 5-3-39

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Frodingham Iron & Steel Co. Ld.; Dorman Long & Co. Ld.; Lanarkshire Steel Co. Ld. - Siemens-Martin Open Hearth process.

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

EQUIPMENT No. 3499 LETTER b. **ANCHORS.**

Number of Certificate.	Anchors.	Weight, less Stock. Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	cwts.	qrs.	lbs.	Weight required by Table 53. Cwts.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
43084	1st Bower	5	2	0	-	-	-	7	16	1	0	5¼	Greens' Quick Grip	John Green Ld.	Cradley Heath; 20/9/27. S.C. Paul.
43083	2nd „	5	1	14	-	-	-	7	14	0	7	5¼	Do	Do	Do
	3rd „	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Collective weight.	10	3	14	✓	✓	✓	✓	✓	✓	✓	10½	✓	✓	✓
43033.	Stream	1 (ex stock)	2	6	-	1	18	3	18	3	0	1¼	Ordinary Forged.	Rd. Sykes & Sons Ld.	Cradley Heath, 29/8/27. J.A. Relf

CHAIN CABLES.

Number of Certificate.	Length supplied (Fathoms)	Diam. supplied (Ins.)	Test Statutory (Tons)	Test Breaking (Tons)	Weight Supplied (Cwts. qrs. lbs.)	Weight Per Rule (Cwts.)	Length per Table 53 (Fathoms)	Diam. per Table 53 (Ins.)	Description.	Makers of Cables.	Where and when tested, and Superintendent.
81928	8-15	¾"	15⅛	10⅛	35-0-20	34½	120	¾	Stud link	✓	Netherton; 25/8/27. S.C. Paul.
81919	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Iron Stream Chain ~~Steel Wire~~	3-15	9/16	7½	3¾	8-3-19	8¾	45	9/16	Short link	✓	Do 23/8/27. Do

HAWSERS AND WARPS.

Material.	Length supplied (Fathoms)	Cir. (Ins.)	Breaking Test of Steel Wire (Tons)	Length per Table 53 (Fathoms)	Cir. per Table 53 (Ins.)
Towline	75	6	✓	75	6
Hawsers & Warps	90	4	✓	90	4
„	✓	✓	✓	✓	✓
„	✓	✓	✓	✓	✓

Steering Gear, Steam Combined & hand by Messrs. W. J. Yarwood & Sons Ld **Steering Gear, Hand** ✓

Boats One @ 16'-0" and one @ 17'-0" **Steering Chains,** Size and Test 9/16" DIA. test 3-15-0-0 (tons cwts q. lbs) ✓ **Windlass** Clarke Chapman, steam.

Ceiling in Holds, thickness and material 2½" Pitch pine **Cargo Battens,** thickness, material and spacing None fitted

Cargo Hatchway.—(Upper Deck) One on upper Deck. **Thickness of Hatches** 2½"

Size of **No. 1 Hatchway** (Forward) 39'-7" x 12'-6" **No. 2** ✓ **No. 3** ✓ **No. 4** ✓ **No. 5** ✓ **No. 6** ✓

Number of **Shifting Beams** and/or **Fore and Afters** Three shifting beams, and three fore and afters (wood).

For W. J. YARWOOD & SONS, LTD.,

Builder's Signature Albert Yarwood DIRECTOR

GENERAL DECLARATION This vessel has been built in accordance with the approved plans, the Secretary's letters and the Society's rules for the class Contemplated.

The materials and workmanship are good.

The peak tanks, Decks and Bulkheads have been satisfactorily tested.

A Freeboard of 9½" has been assigned and verified, and the markings cut in on the vessel's side

The following plans are forwarded herewith:-
Amended Midship Section, Bulkheads, Amended Profile & Deck Plan,

The amount of Entry Fee ...... £ 2 : 0 : 0

Special Survey Fee.... £ 23 : 16 : 0

Travelling Expenses, if any £ 7 : 10 : 8

Freeboard £ 1 : 16 : 8

Fees applied for, 10/11/1927.

Received by me, 16.11.1927

I am of opinion the Vessel should be Classed ✠ 100A.1.

State whether the Vessel has been built under Special Survey Yes

Signature E.H. Dean.
Surveyor to Lloyd's Register of Shipping.

Certificate ~~to~~ be sent to Liverpool. Date of issue 17/11/27.

Committee's Minute LIVERPOOL 11 NOV. 1927

Character assigned ✠ 100 A1 - 11.27.
Lloyds A & CP.
✠ LMC 11.27.
Elec: Light

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

003605-003610-0024

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.*)

Stemframe & Rudder, Quadrant Plan, Preparations for voyage to Cape Town, Amended Shell Expansion, Engine Seating, alternative Arrangement of Centre Keelson.

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

1st Bower 3-0-26 cwts; A. B.; 3402; 8th March 1926.

2nd " 3-0-17 cwts; A. B.; 302; 5th May 1926.

3rd "

PARTICULARS FOR RECORD in the **REGISTER BOOK.**—Length of Poop ✓ ft., R.Q.D. 32·12 ft., Bridge ✓ ft., Forecastle 13·58 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 (Stl.)

Official No. 149937; 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,	13·00	37·5
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	10·75	22
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	✓	✓	Other tanks, if fitted,	✓	✓
	Total capacity of double bottom	✓	(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. 1180.

Date 20/1/25.

Dates of Surveys held while building: 1924. Nov 14. 24. 1925 Jan 15. 22. Feb 4. 24. June 18. 1926. apl 29 June 30. 1927. July 20. Aug 12. Sept 1. 22. Oct 7. 18. 28. 31. Nov 2.

Total No. of Visits 18.