

With or Without  
Disconnected Erections.

STEEL STEAMER.

Received at London THU. APR 10. 1913

Date of completion of report 8 Apr. 1913

Survey held at SUNDERLAND

On the (State if Single, Twin, or Triple Screw) single screw

TONNAGE under Tonnage Deck 3747.17

Do. between Tonnage Dk. and 1st Dk. 19.08

Do. of Poop 19.08

Do. of R.Q.Dk. 80.67

Do. of Bridge House 50.22

Do. of Forecastle 4.16

Do. of Houses on Dk. 4.58

Do. of excess of Hatchways 48.04

Do. above Crown of Engine Room 111.74

Gross Tonnage 4067.96

Less Crew Space 98.33

Less above Crown of Engine Room 111.74

ONNAGE FOR FEES 3857.89

Less Engine Room 1301.75

Less Navigation Spaces 26.25

Water Ballast Space 74.78

Register Tonnage as cut on Beam 2556.75

State if Report is also sent on the Machinery of the Vessel Yes

Date, First Survey 31 July

" TIARA

Port of SUNDERLAND

Last Survey 5 April 1913

Rig Schooner

Master J. Manger

Year of appointment (1) As Master in service of owner of present vessel: 1905 (2) As Master of this vessel: 1913

Built at SUNDERLAND

When built 1913 Launched 10-3-1913

By whom built Sunderland S.B. Co. Ltd.

Owners Hall Bros. Steamship Co. Ltd.

Managers Hall Bros.

Residence Newcastle-on-Tyne

Port belonging to Newcastle

CLASS 100 A1

FRT.

Breadth (greatest moulded) 50.41

Depth, at middle of length from top of keel to top of upper deck beams at side 26.66

Transverse Number 77.07

Length on deck from fore part of stem to after part of stern post 364.0

Longitudinal Number 28053

Depth "d," at middle of length (See Secs. 2 & 13) 23.54

Proportions—Depths to Length—Upper Deck Beam at side to top of keel 13.65

" " Long Bridge Deck Beam at side to top of keel 10.8

Destined Voyage Santos

If Surveyed while Building, Afloat, or in Dry Dock Yes

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	No. of Tiers of Beams
364	0		50	5		24	8		one	one

Dimensions of Ship per Register, Length 364.0 breadth 50.8 depth 24.25 Moulded depth, ft. 33 ins. 8 To Bridge Dk. Round of Upper Dk. Beam, Actual 12 ins. Moulded depth, ft. 26 ins. 8 To Upper Dk.

FRAMING.				PILLARS.			
FRAME, Angles, or Bars amidships	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	PILLARS, In 'tween Deck, size and spacing	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.
Do. in peaks	10	3 1/2	56	" " Hold Double Channels	2 3/4	50	2 3/4 x 50
Do. in way of Double Bottoms at Solid Floors	6 1/2	3 1/2	42	" " Quarter 'tween Dks.	7	3 1/2	56 x 50
" " at intermdt. Dkts.	3 1/2	3 1/2	38	" " in Hold			
Spacing of Frames from centre to centre amidships	25		25				
" " from 1/2 length to Collision bulkhead	25		25				
" " in peaks	24		24				
REVERSED FRAME, Angles							
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	38				
" " at intermdt. Dkts.							
FRAMING, depth of girder	10		10				
FLOORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships							
" in way of Engine and Boiler Spaces	46	48	38				
" thickness at the ends of vessel	38		38				
" depth at 1/2 the half breadth, as per Rule							
" height extended at the Bilges	38		38				
FLOORS in Cell. Double Bottoms							
" state if flanged (top & bottom)							
" Spacing of Solid floors							
CENTRE GIRDER, in Dbl. bottom, dpth. & thcknss.	4 1/2	50	4 1/2				
" Angles, Top (Single)	4 1/2	58	4 1/2				
" Bottom (Double)	4 1/2	58	4 1/2				
" to Floors (Single)	5	54	5				
" Brackets at intermdt. frmg., width & thcknss	two	36	two				
SIDE GIRDERS, number on each side & thickness							
" state if flanged (top and bottom)							
" Angles (top and bottom)	3 1/2	38	3 1/2				
" to Floors	3	38	3				
MARGIN PLATE, depth (exclusive of flange) and thickness	3 1/2	44	3 1/2				
" Angles to Outside Plating	3 1/2	44	3 1/2				
" Floors	5	38	5				
" Brackets at intermdt. frmg., width & thcknss							
" Height of Outside Brackets above at bilge	60		60				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	60	46	60				
" in Engine and Boiler space	46	54	46				
" Remainder in Holds	38		38				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	32	50				
" In way of Long Bridge	8 1/2	3	46				
" Spacing							
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" Spacing							
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" Angles on upper edge							
" Spacing							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8 1/2	3	46				
" Angles on upper edge							
" Spacing							
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	44				
" Angles on upper edge							
" Spacing							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	10	3 1/2	50				
" Angles on upper edge	3 1/2	3 1/2	34				
" Spacing							
Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)				57	88	57	88
" " " (br'dth & thickness) (in way of Bridge)				57	46	57	46
" " " Angle (clear of Bridge)				5 x 5	66	5 x 5	66
" " " Tie Plate at sides of Hatchways							
" Deck * Iron or Steel, for full lng.							
" Thickness (clear of Bridge) Iron				46	36	46	36
" " (in way of Bridge) Steel				34		34	
" Wood Deck, Material & thickness							
Second Deck Stringer Plate, br'dth & thickness							
" Angles on ditto, No.							
" Tie Plates outside Hatchways							
" Deck * Iron or Steel, for lng.							
" Wood Deck, Material & thickness							
Third Deck Stringer Plate, br'dth & thickness							
" Angles on ditto, No.							
" Tie Plates outside Hatchways							
" Deck * Material and thickness							
Fourth and Fifth Deck Stringer Plate, br'dth & thickness							
" Angles on ditto, No.							
" Tie Plates outside Hatchways							
" Deck * Material & thickness							
Poop Deck Stringer Plate, breadth & thickness				33	37	33	34
" Angle on ditto				32 x 33	34	32 x 33	34
" Tie Plates							
" Deck, Material and thickness				35		35	
Bridge Deck Stringer Plate, br'dth & thickness				51	52	51	52
" Angle on ditto				4 1/2 x 4 1/2	56	4 1/2 x 4 1/2	56
" Tie Plates							
" Deck, Material and thickness				40		40	
Forecastle Deck Stringer Plate, br'dth & th'kns				33	34	33	34
" Angle on ditto				3 1/2 x 3 1/2	34	3 1/2 x 3 1/2	34
" Tie Plates				9	34	9	34
" Deck, Material and thickness				5 x 3	44	5 x 3	44

\* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

011280-011293-008112



[illegible]

EQUIPMENT No. 19200				LETTER				ANCHORS.				TONNAGE U. DK. OR PLATING No. FOR TRAWLERS															
Number of Certificate.		Anchors.		WEIGHT, E.K. STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 31.		Description of Anchor.		Makers.		Where and when tested and Superintendent.											
				Owts. qrs. lbs.		Owts. qrs. lbs.		Tons. owts. qrs. lbs.		Owts. qrs. lbs.																	
40139		1st Bower		52 2 21		Shackles		44 0 1		52 2 0		Shackles		S. Taylor & Sons		LPH-T. 14-12-12											
40138		2nd "		52 0 0		do		43 12 2		52 2 0		do		S. Taylor & Sons		LPH-T. 16-12-12											
40142		3rd "		45 0 0		do		39 5 0		44 2 0		do		S. Taylor & Sons		LPH-T. 16-12-12											
16429		4th "																									
16430		Collective weight		149 2 21						149 2 0																	
		Stream		14 1 0		3 14		15 16 3		14 0 0		Common		do.		LPH-S. 30-12-12											
		Kedge		6 0 14		1 2 7		8 7 2		6 0 0		do.		do.		do.											
CHAIN CABLES.																HAWERS AND WARPS.											
Number of Certificate.		Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.		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 31.					
		Fathoms. Diam.		Tons. Tons.		Owts. qrs. lbs. Owts. qrs. lbs.		Fathoms. Ins.										Fathoms. Ins.		Tons. Tons.		Fathoms. Ins.					
6143		270 3/4		76 5/8 100 5/8		58 1/2 10 57 3/4 2 1/4		270 2 7/8		Shackles		S. Taylor & Sons		LPH-S. 31-12-12		Hawser		120 1/2		39 1/2		120 1/2					
		Cir.						Cir.																			
90 1/2				37				90 1/2																			
Boats 2 Lifeboats 25' 6" x 1' 9" x 1' 9" Single.																Steering Gear, Steam fitted				Steering Gear, Hand fitted							
Pumps, Number 1 Down on 1 Side Rotary																Diameter of Barrel 5" x 1 1/2"				State whether they are in efficient working order Yes.							
Windlass is Messrs Emerson & Haller																Capstan											
Engine Room Skylights.—How constructed? Steel plate angles.																What arrangements for deadlights in bad weather? Shaped steel flaps, bulldozers.											
Coal Bunker Openings.—How constructed? Steel plate angles.																How are lids secured? Cleats secured by bolts.				Height above deck? 17 1/2"							
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 6 Scuppers each side — 8 Freeing Ports 3' 0" x 1' 9" each side.																Cargo Battsens, thickness and material 7 x 2 w. wood.				Hatches, If strong and efficient? Yes 3" thick.							
State size No. 1 Hatch (Forward) 25' 0" x 17' 11"																No. 2 Hatch 25' 0" x 17' 11"				No. 3 Hatch 25' 0" x 17' 11"				No. 4 Hatch 25' 0" x 17' 11"			
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch four.																No. of Breasthooks 7				No. of Crutches Deep Floors							
Bulwarks, height above deck and description 4' 3" x 25' Steel Bulk Heads 7' 2" x 7' 2"																Main Rail, material and size 6' 3" x 3 1/2" Ang.											
The foregoing is a correct description of the vessel and its equipment.																Surveyor's Signature R. M. McLaren				Surveyor to Lloyd's Register of British and Foreign Shipping.							
Builder's Signature (here only) J. H. McLaren																											
Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) 28-3-12																											
E 8-6-12																											
Workmanship. Are the butts of plating planed or otherwise fitted? planed.																											
Is the riveted work properly closed? Yes.																											
Are the liners between the frames and plates solid single pieces? joggled framing																Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes.				Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes.							
Do any rivets break into or through the seams or butts of the plating? a few.																											
Are the butts of Plating, Stringers, &c., properly shifted and strapped or overlapped? Yes.																											
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes																State results of tests Satisfactory.											
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes																State results of tests Satisfactory.											
General Remarks (State quality of workmanship, &c.)																											
The materials and workmanship throughout are satisfactory																											
This vessel has been built in accordance with the approved plans																											
The Secretary's letters as dated above and otherwise in compliance with the Rules of the Society.																											
The Surveyor should state the Number of Report and Name of any Sister Vessel.																											
The amount of Entry Fee £ 5 : 0 : 0																Fees applied for, 9 4 19 3				Certificate to be sent to Sunderland Date of issue 29/4/13.							
Special Survey Fee £ 131 : 9 : 0																Received by me, J. H. McLaren											
Traveling Expenses, if any £																											
State whether the Vessel has been built under Special Survey Yes.																											
I am of opinion this Vessel should be Classed 100 A1																											
With, or without Freeboard, as condition of Class without.																											
Committee's Minute FRI. APR. 11. 1913																											
Character assigned 100 A1																											
R. M. McLaren																											
Thine &c																											
W.																											



GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.0 ft., R.O.P. 4 ft., Bridge 105.16 ft., Forecastle 33.84 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *not joined*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as should appear in the Register Book) *1 34 (pt iron pt stl)*  
 Official No. *133 529*; Signal Letters *✓* State if Machinery is fitted aft *no*.  
 How are the surfaces preserved from oxidation? Inside *portland cement & paint* Outside *paint*.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *Cellular System*.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>118.75</i>	<i>313</i>	Fore peak tank,	<i>19.25</i>	<i>97</i>
Double bottom, under Engines and Boilers,	<i>—</i>	<i>—</i>	After peak tank,	<i>22.25</i>	<i>158</i>
Double bottom, if under Engines <i>only</i> ,	<i>22.91</i>	<i>76</i>	Deep tank, aft,	<i>—</i>	<i>—</i>
Double bottom, if under Boilers <i>only</i> ,	<i>16.66</i>	<i>55</i>	Deep tank, forward,	<i>—</i>	<i>—</i>
Double bottom, forward,	<i>158.33</i>	<i>456</i>	Other tanks, if fitted,	<i>—</i>	<i>—</i>
Total capacity of double bottom		<i>900</i>	(If necessary, furnish further information by sketch.)		

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

State whether the above have been tested as required by the Rules *yes*.

Order for Special Survey No. *5028*

Date *26. 3. 12*

No. *275* in builder's yard.

DATES OF SURVEYS held while building

*1912 Jul 31 Aug 14. 22. 26. 30 Sep 17 Oct. 4. 8. 11. 15. 18. 22. 25 Nov. 1. 4. 7. 15. 27. 28.  
 Dec. 2. 6. 10. 12. 19. 21. 27 Jan. 6. 7. 15. 23. 27. 31 Feb. 4. 7. 11. 14. 19. 20. 25. 26. 27. 28.  
 Mar. 1. 4. 5. 6. 7. 11. 12. 18. 26. 27 Apr. 1. 2. 3. 4. 5.*

Surveyor's Signature

*A. W. McEwen*

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