

WRECK SECTION  
Awning or Shelter Deck, No. 31509  
or Pt. Awning Deck, No. 31509  
STEEL STEAMER.

Port of Glasgow Date of completion of Report 3.6.12 Received at London Office WED. JUN. 5 - 1912  
Survey held at Dumbarton Date, First Survey 20.9.11 Last Survey 28.5.1912  
On the Steel Screw Steamer KIRKOSWALD Rig Schooner  
CLASS +100A1 Shelter, deck, with foreboard. Master F. Williamson  
TONNAGE under Tonnage Deck 3803.22 Breadth (Greatest moulded) 50.75 Year of Appointment 1909  
Do. between Tonnage Dk and 3rd, 4th, or Awning Dk. 36 Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 36.75  
Total under Upper Dk. 3803.22 Deduct height of 'tween deck when this does not exceed 8ft. 8.00 Built at Dumbarton  
Do. of Poop 36 Transverse Number 79.50 When built 1912 Launched 16/4/12  
Do. of R. Qr. Dk. 75.69 Length of deck from fore part of stem to after part of sternpost 369.5 By whom built A. Mc Millan & Sons Ltd.  
Do. of Bridge House 102.85 Longitudinal Number 29375 Owners Kyle Transport Co. Ltd.  
Do. of Forecastle 14.24 Depth "d" at middle of length. See Secs. 2 & 13. 10.0 Managers W. M. Buckle  
Do. of Houses on Deck 25.10 Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 13.3 Residence Port belonging to Liverpool  
Do. of excess of Hatchways 134.61 Destined Voyage Santos If Surveyed while Building, Afloat, or in Dry Dock yes  
Do. above Crown of Engine Room 4021.46 Less Crew Space 134.61 Register Tonnage as cut on Beam 2438.38

LENGTH on Deck as per Rule	Ins.	BREADTH Moulded	Ins.	DEPTH, ACTUAL Do.	Top of Floors to top of Awning or Shelter Dk. Beams	Ins.	No. of Decks with flat laid	No. of Tiers of Beams
369	6	50	9	36	24	4	1	1
Dimensions of Ship per Register.								
Length 370 breadth 51 depth 25.2			Upper Deck. Moulded depth, ft. 27 ins. 9 To Upper Dk.					
FRAMING.				PILLARS.				
FRAME, Angles, or $\square$ or $\angle$ Bars, amidships				PILLARS, in 'tween Deck, size and spacing				
Do. in peaks				" " Hold				
Do. in way of Double Bottoms at Solid Floors				" Quarter, 'tween Dks.,				
" " at intermdt. Bkts.				" " in Hold				
Spacing of Frames from centre to centre amidships				KEELSONS AND STRINGERS.				
" length to collision bulkhead				CENTRE LINE KEELSON, Vertical Plate above				
" of Frames from centre to centre in peaks				floors, Through Plate, or Intercoastal Plate				
REVERSED FRAME, Angles				" Rider Plate				
Do. in way of Double bottoms at Solid Floors				" Flat Keel Plate Angles				
" " at intermdt. Bkts.				" Horizontal Plates on Floors				
FRAMING, depth of girder				" Angles or Bulb Angles				
FLOORS, depth and thickness of Floor Plate				SIDE KEELSONS, Number				
at mid-line for $\frac{2}{3}$ length amidships				" Angles or Bulb Angles				
" in way of Engine and Boiler spaces				" Plate above floors, for length				
" thickness at the ends of vessel				" Intercoastal Plate, for length				
" depth at $\frac{1}{2}$ the half-bdth. as per Rule				" Attached to outside plating with Angle				
" height extended at the Bilges				BILGE KEELSON, Angles				
FLOORS & BRACKETS, in Cell Dble Bottoms				" Intercoastal Plate, for length				
" state if flanged (top & bottom)				" Attached to outside plating with Angle				
" spacing				SIDE STRINGERS, Number				
CENTRE GIRDER, in Dbl. bottom, dpth. & thickness				" Angle				
" Angles, Top				" Intercoastal Plate, for lng.				
" Bottom				" Attached to outside plating with Angle				
" to floor				Awning or Shelter Deck Stringer Plates,				
SIDE GIRDERS, number and thickness				breadth and thickness				
" state if flanged (top & bottom)				" Angle on ditto				
" Angles				" Tie Plates, fore and aft, outside Hatchways				
MARGIN PLATE, depth (exclusive of flange)				" Deck * Iron or Steel, for full lng.				
and thickness				" Wood Deck, Material & thickness				
" Angles to outside plating				Upper Deck Stringer Plate, breadth and				
" to floors inside				thickness				
" Height of Brackets above at bilge				" Angles on ditto, No.				
INNER BOTTOM PLATING, breadth and				" Tie Plates, outside Hatchways				
thickness of Middle Line Strake				" Deck * Iron or Steel, for full lng.				
" thickness in Engine and Boiler space				" Wood Deck, Material & thickness				
" Remainder in Holds				Second Deck Stringer Plates, br'dth & thickness				
BEAMS, Awng or Shltr Dk. Single Angle,				" Angles on ditto, No.				
Bulb Angle, Plate, Tee Bulb or Channel				" Tie Plates, outside Hatchways				
" Angles on upper edge				" Deck * Material and thickness				
" Spacing				Third, Fourth & Fifth Deck Stringer Plate,				
BEAMS, Upper Deck, Single Angle, Bulb Angle,				breadth and thickness				
Plate, Tee Bulb or Channel				" Angles on ditto, No.				
" Angles on upper edge				" Tie Plates, outside Hatchways				
" Spacing				" Deck, Material and thickness				
BEAMS, Second, Third & Fourth Deck, Single				Poop Deck Stringer Plate, breadth & thickness				
Angle, Bulb Angle, Plate, Tee Bulb or Channel				" Angles on ditto				
" Angles on upper edge				" Tie Plates				
" Spacing				" Deck, Material and thickness				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate,				Bridge Deck Stringer Plate, br'dth & thickness				
Tee Bulb or Channel				" Angle on ditto				
" Angles on upper edge				" Tie Plates				
" Spacing				" Deck, Material and thickness				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate,				Forecastle Deck Stringer Plate, br'dth & th'kns				
Tee Bulb or Channel				" Angle on ditto				
" Angles on upper edge				" Tie Plates				
" Spacing				" Deck, Material and thickness				
BEAMS, Forecastle Deck, Angle, Bulb Angle,								
Plate, Tee Bulb or Channel								
" Angles on upper edge								
" Spacing								



[illegible]



EQUIPMENT No. 32177 LETTER X ANCHORS.

Number of Certificate.	Anchors	WEIGHT EX. STOCK		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.				WEIGHT REQ. BY TABLE 51.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs. lbs.	Cwts.	qrs. lbs.	Tons.	cwts	qrs.	lbs.	Cwts.	qrs.	lbs.			
X 38892	1st Bower	57	0 14			46	14	0	7	56	2	0	Yaglon Cast Steel Head	S. Yaglon & Son	20/3/12 Penn
X 38894	2nd „	56	1 21			46	4	2	21	56	8	0	„	„	20/3/12 Penn
X 38893	3rd „	47	0 14			40	11	2	7	47	2	0	„	„	20/3/12 Penn
	Collective weight	160	2 31							160	0	0			20/3/12 Penn
38921	Stream	15	0 0	3	3 0	16	10	0	0	15	0	0	Ordinary	H.P. Parker & Co	26/3/12 Penn
38922	Kedge	6	3 14	1	3 0	9	2	2	0	6	2	0	Rodgers	„	26/3/12
X Certificate of cast steel heads produced															

CHAIN CABLES.

HAWSERS AND HEADS.

## CHAIN CABLES.

Number of Certificate.	Length and Size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Fathoms 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 Towline.		Fathoms and size per Table 31.	
	Length.	Diam.	Statutory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.	Tons	Fathoms.	Ins.	
																		Tons.
40144	Fathoms. 270	Ins. 2 8	81 4	113 3/4	Cwts. qrs lbs. 609-1-0668-214		Fathoms. 270	Ins. 2 8	Steel Line	H.P. Parker & Co.	Sept. 27/12. Penn.	TOWLINE Steel wire	Fathoms. 120	Ins. 4 1/2	Tons 39	Fathoms. 120	Ins. 4 1/2	
Iron Stream Chain or Steel Wire...		Cir.						Cir.				HAWSELS & WARPS	"	90	2 3/4	15 1/2	90	2 1/2
												"	"	90	2 1/2	12 1/2	90	2 1/2
												"	"	90	2 1/2	12 1/2		
												"	"	90	7		90	7
Steel wires manufactured by Messrs Whitecross Works & Co Glasgow. (2 of 1) → Hemp																		

## Boats

Pumps, Number *1 forward pump 5 1 one pump to* Diameter of Barrel *5 2 4* State whether they are in efficient working order *Yes*  
Windlass is *Emerson, Walker, 1 one head* Capstan *—*  
Engine Room Skylights.—How constructed? *Steel plate, 1 angle* What arrangements for deadlights in bad weather? *flaps with bulls eyes*  
Coal Bunker Openings.—How constructed? *Steel plate, 1 angle* How are lids secured? *cleats, 1 battens* Height above deck? *30*  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *7 scupper each side, 1 freeing port in bow hatch opening*  
Ceiling in Holds, thickness and material *2 1/2 W.P. over bulkheads and under* Cargo Battens, thickness and material *each side 2 1/2 x 15*  
Cargo Hatchways.—How formed? *Plate and angles* Hatches, If strong and efficient? *Yes*  
State size No. 1 Hatch (Forward) *24-0 x 18-0* No. 2 Hatch *33-0 x 18-0* No. 3 Hatch *12-0 x 18-0* No. 4 Hatch *29-11 x 17-11*  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *No. 1 hatch = four webs. No. 2 hatch = 6 webs. No. 3 = 1 web. No. 4 = four webs. No. 5 = four webs.*  
Bulwarks, height above deck and description *3-0 steel plate in way of accommodation* Main Rail and Stays, material and size *Longitudinal rail 6 x 3 x 30 B.A. Stays 6 x 3 Bull plate*  
The foregoing is a correct description *YACHT* *McMILLAN & SON, LTD.*  
Builder's Signature (here only) *W. W. McMILLAN* Surveyor's Signature *Geo. McShaw*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

**Correspondence.**—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with this case*) 18/5/11 (M.) 16/6/11 (M.) 20/6/11 (E) 30/6/11 (E) 7/7/11 (M) 31/8/11 (M) 4/9/11 (M) 13/10/11 (M) 14/2/12 (M) 14/3/12 (M) 3/5/12 (M)

**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? *where fitted yes*

to plate, &c., conform well to each other?

from the faying surfaces? *yes*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *yes*

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? yes

General Remarks (State quality of workmanship, &c.) *workmanship good.*

This vessel has been built on the Osherwood system of longitudinal framing, and in accordance with the approved plans, the Secretary's letters of the above dates, and in general conformity to the Rules for the class contemplated.

10 Plans 4 Forging forms.

*The Surveyor should state the Number of Report and Name of any Sister Vessel.*

The amount of Entry Fee .....	£	5	:	:	Fees applied for,	30. 5. 1912
Special Survey Fee...	£	121	:	11	Received by me,	1. 6. 1912
Travelling Expenses, if any	£	:	:	:		

Certificate to be sent to Glasgow Date of issue

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed +100A, Shelter Deck, Longitudinal framing Geo. M. Shaw  
 With, or without Freeboard, as condition of Class with Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 4 - JUN. 1912

Character assigned  $\frac{1}{2}$  100 R.  
Shelter Ox. with fbd. 53.2  
572  
Lloyd's arc  
+ LMC 572.

Longitudinal framing

+ LMC 572



## PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.					
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.		Rivets in Brackets to Bulkheads.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Inches.	Number.	Diameter.	
Framing of $\perp$ , $\angle$ or $\Gamma$ .....																		
Frames in Bridge 'tween Decks ...																		
Frames from Uppermost Continuous Deck																		
No. 1	6 1/2	3 1/2	40	6	3 1/2	40	6 1/2	3 1/2	40	6	3 1/2	40	7/8	5 1/4	5 1/4	6	7/8	
" 2	6 1/2	3 1/2	40	6	3 1/2	40	6 1/2	3 1/2	40	6	3 1/2	40	7/8	5 1/4	5 1/4	6	7/8	
" 3	6 1/2	3 1/2	40	6	3 1/2	40	6 1/2	3 1/2	40	6	3 1/2	40	7/8	5 1/4	5 1/4	6	7/8	
" 4	6 1/2	3 1/2	40	6	3 1/2	40	6 1/2	3 1/2	40	6	3 1/2	40	7/8	5 1/4	5 1/4	6	7/8	
" 5	7	3 1/2	40	6 1/2	3 1/2	40	7	3 1/2	40	6 1/2	3 1/2	40	7/8	5 1/4	4 3/8 for 10 rivets	6	7/8	
" 6	7 1/2	3 1/2	40	7	3 1/2	40	7 1/2	3 1/2	40	7	3 1/2	40	7/8	5 1/4	4 3/8 for 10 rivets	7	7/8	
" 7	8	3 1/2	44	7 1/2	3 1/2	44	8	3 1/2	44	7 1/2	3 1/2	44	7/8	5 1/4	4 3/8 for 10 rivets	7	7/8	
" 8	8 1/2	3 1/2	44	8	3 1/2	44	8 1/2	3 1/2	44	8	3 1/2	44	7/8	5 1/4	4 3/8 for 10 rivets	7	7/8	
" 9	9	3 1/2	48	8 1/2	3 1/2	48	9	3 1/2	48	8 1/2	3 1/2	48	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 10	9 1/2	3 1/2	48	9	3 1/2	48	9 1/2	3 1/2	48	9	3 1/2	48	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 11	10	3 1/2	50	9 1/2	3 1/2	50	10	3 1/2	50	9 1/2	3 1/2	50	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 12	7	3 1/2	40	6 1/2	3 1/2	40	7	3 1/2	40	6 1/2	3 1/2	40	7/8	5 1/4	3 1/2 for 4 rivets	6	7/8	
" 13	Partial	9 1/2	3 1/2	50	Partial	9 1/2	3 1/2	50	Partial	9 1/2	3 1/2	50	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 14	FORWARD	9 1/2	3 1/2	48	FORWARD	9 1/2	3 1/2	48	FORWARD	9 1/2	3 1/2	48	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 15	AFT	9	3 1/2	48	AFT	9	3 1/2	48	AFT	9	3 1/2	48	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
" 16		7	3 1/2	40		7	3 1/2	40		7	3 1/2	40	7/8	5 1/4	3 1/2 for 10 rivets	8	7/8	
Spacing of Longitudinal Frames	Amidships	26 and 30 in hold								36 between upper and shelter deck								
	At Ends	24 and 30								36 between upper and shelter deck								
Double Bottoms	Tank Top Longitudinals	7 1/2	3	40	7	3	40	7 1/2	3	40	7	3	40	7/8	5 1/4	4 3/8 for 4 rivets		
$\perp$ , $\angle$ or $\Gamma$	Bottom	7 1/2	3 1/2	44	7 1/2	3 1/2	44	7 1/2	3 1/2	44	7 1/2	3 1/2	44	7/8	5 1/4	4 3/8 for 4 rivets		
Spacing of Longitudinals	Amidships	28 and 29								and graduated from 29 at bulkhead on 60								
	At Ends	to 24 apart at collision bulkhead																
Transverses.																		
In Bridge	Depth and Thickness																	
'tween Decks	Face Angles																	
	Lugs to Shell*																	
In Awning, Shelter or Upper 'tween Decks.	Depth and Thickness	16	38	16	38	16	38	16	38	16	38	16	38	7/8	6 3/8			
	Face Angles	8 1/2	3 1/2	60	8 1/2	3 1/2	60	8 1/2	3 1/2	60	8 1/2	3 1/2	60	7/8	6 3/8			
	Lugs to Shell*	3 1/2	3 1/2	38	3 1/2	3 1/2	38	3 1/2	3 1/2	38	3 1/2	3 1/2	38	7/8	4 3/8			
	Depth and Thickness	17	46	for depth	17	46	for depth	17	46	for depth	17	46	for depth	7/8	6 3/8			
	Face Angles	9	3 1/2	72	9	3 1/2	72	9	3 1/2	72	9	3 1/2	72	7/8	6 3/8			
	Lugs to Shell*	5	5	46	5	5	46	5	5	46	5	5	46	7/8	6 3/8			
In Hold.	Brackets	57	46	profile	57	46	profile	57	46	profile	57	46	profile	7/8	6 3/8			
Spacing of Transverse Frames		12.0																
	* State if joggled or liners.																	
Longitudinal Beams of $\perp$ , $\angle$ or $\Gamma$	Bridge Deck																	
	Upper	15	3	36	5 1/2	3	36	6	3	36	5 1/2	3	36	3/16	3/16			
	Second	13	3	42	7	3	42	7 1/2	3	42	7	3	42	3/16	3/16			
	Third	13	3	40	7 1/2	3	40	7 1/2	3	40	7 1/2	3	40	3/16	3/16			
	Transverse Beams.																	
		10x38	8 1/2	3 1/2	10x38	8 1/2	3 1/2	10x38	8 1/2	3 1/2	10x38	8 1/2	3 1/2	10x38	8 1/2	3 1/2		
		12x40	9 1/2	3 1/2	12x40	9 1/2	3 1/2	12x40	9 1/2	3 1/2	12x40	9 1/2	3 1/2	12x40	9 1/2	3 1/2		
		15x14	13	9 1/2	15x14	13	9 1/2	15x14	13	9 1/2	15x14	13	9 1/2	15x14	13	9 1/2		
		See Profile			See Profile			See Profile			See Profile			See Profile				

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

14.11.10.—T.

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

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 it should appear in the Register Book) **1 DK (STL), LOWER DK (STL) FORE HOLD, SHELTER DECK (IRN)**  
Official No. **131436**; Signal Letters  $\leftarrow$  State if Machinery is fitted aft  $\leftarrow$   
How are the surfaces preserved from oxidation? Inside **paint and cement** 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.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	109	332	Fore peak tank,	21	130
Double bottom, under Engines and Boilers,	37	144	After peak tank,	26	224
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	168	600	Other tanks, if fitted,		
Total capacity of double bottom	1076		(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. **4579**

Date

**16.6.11.**

No. **444** in builder's yard.

DATES OF SURVEYS held while building

**1911. Sept. 20. 26. 28. Oct. 2. 5. 10. 13. 18. 20. 26. Nov. 3. 7. 13. 15. 20. 23. 30. Dec. 6. 11. 15. 22. 28.**  
**1912. Jan. 10. 12. 15. 23. 29. Feb. 2. 13. 26. March 1. 8. 12. 18. 21. 27. 29.**  
**April 2. 4. 11. 12. 13. 15. 22. May 6. 16. 21. 27. 28.**

Surveyor's Signature

**Geo. M. Shaw**

Total No. of Visits **50**