

1 or 2 Dks., R.Q.Dk.,
and Pt. Awng. Dk.

IRON OR STEEL STEAMER.

No. 24077
JUL 22 MAY 1906

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

Date of completion of Report *15th May 1906*

Received at London Office

Port of *Glasgow*

Date, First Survey *13th Sept 05*

Last Survey *1st May 1906*

Rig *3 masted 3rd Schooner*

Survey held at *Ayr*
On the *S. S. "Wheatear"*

Master *J. Atkins*

Year of appointment *(1) As master in service of owner of present vessel: 1906
(2) As master of this vessel: 1906*

Built at *Ayr*

When built *1906* Launched *27th Feb 1906*

By whom built *Albion S. B. Co. Ltd*

Owners *Spillers & Bakers, Ltd*

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

Residence *Cardiff*

Port belonging to *Cardiff*

TONNAGE under Tonnage Deck... *236.21*
Do. of Poop *66.69*
Do. of Raised Qr. *13.46*
Do. of Break... *15.34*
Do. of Bridge House *8.94*
Do. of Forecastle *21.38*
Do. of Houses on Deck *21.44*
Do. of excess of Hatchways *383.46*
Do. above Crown of Engine Room *43.51*
Gross Tonnage *21.44*
Less Crew Space *318.51*
Less above Crown of Engine Room *210.75*
Less Navigation Spaces *15.40*
TONNAGE FOR FEES *113.80*
Register Tonnage as cut on Beam *113.80*

ONE OR TWO DECKED VESSEL.
CLASS *100A1*

Half Breadth (moulded) *11.75*
Depth from upper part of Keel to top of Main Deck Bms. *12.32*
(with the normal round up of beam)
Girth of Half Midship Frame (as per Rule) *21.68*
1st Number *45.75*
Length on deck from after part of stem to fore part of stern post *140.96*
2nd Number *6449*
Proportions—Breadths to Length *5.99*
Depths to Length—Main Deck to top of Keel *11.44*
Destined Voyage *Coasting*

LENGTH on Deck as per Rule *140* Feet. *11 1/2* Inches. BREADTH—Moulded *23* Feet. *6* Inches. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams *9* Feet. *8* Inches. No. of Decks with Flat laid *one* No. of Tiers of Beams *one*
Dimensions of Ship per Register, Length, *142.2* breadth, *23.68* depth, *9.42* Moulded Depth, *11* ft. *10* ins. Round of Beam, Actual *6* ins.

FRAMING.						FORGINGS AND CASTINGS.					
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
FRAME, Angles, <i>2</i> <i>E</i> or <i>L</i> Bars, for $\frac{1}{2}$ length amidships	<i>3</i>	<i>3</i>	<i>7</i>	<i>3</i>	<i>3</i>	KEEL, Bar or Side Plates depth and thickness	<i>7 x 1 1/2</i>		<i>7 x 1 1/2</i>		
Do. for $\frac{1}{2}$ at each end	<i>3</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>3</i>	STEM, moulding and thickness	<i>7 x 1 1/2</i>		<i>6 1/4 x 1 1/2</i>		
Do. in way of Double Bottoms at Solid Floors	<i>3</i>	<i>3</i>	<i>7</i>	<i>3</i>	<i>3</i>	STERN-POST for Rudder do. do.	<i>6 1/4 x 3</i>		<i>6 1/4 x 3</i>		
Spacing of Frames from centre to centre	<i>21</i>			<i>21</i>		for Propeller	<i>6 1/4 x 3</i>		<i>6 1/4 x 3</i>		
REVERSED FRAME, Angles	<i>2 1/2</i>	<i>2 1/2</i>	<i>6</i>	<i>2 1/2</i>	<i>2 1/2</i>	MAIN PIECE of Rudder, diameter at head	<i>4 5/8</i>		<i>4 5/8</i>		
DEEP FRAMING, depth of girder	<i>3</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>3</i>	do. at heel	<i>3 1/2</i>		<i>3 1/2</i>		
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	<i>13</i>		<i>10</i>	<i>13</i>		RUDDER, how constructed <i>Forged frame and single plate 1 1/2</i>					
in way of Engines and Boilers	<i>13</i>		<i>10</i>	<i>13</i>		Can the Rudder be unshipped afloat? <i>Yes</i>					
thickness at the ends of vessel	<i>8</i>		<i>5</i>	<i>8</i>							
depth at $\frac{1}{2}$ the half breadth, as per Rule	<i>26</i>			<i>26</i>							
height extended at the Bilges	<i>32</i>		<i>6</i>	<i>32</i>							
FLOORS & BRACKETS, in Cell Dble Bottoms	<i>32</i>		<i>6</i>	<i>32</i>							
state if flanged (top & bottom)	<i>40</i>			<i>40</i>							
Spacing	<i>21</i>			<i>21</i>							
CENTRE GIRDER, in Double Bottom, depth and thickness	<i>32</i>		<i>8</i>	<i>32</i>							
Angles, Top	<i>3</i>	<i>3</i>	<i>7</i>	<i>3</i>	<i>3</i>						
Bottom											
SIDE GIRDERS, number on each side & thickness	<i>1</i>		<i>6</i>	<i>1</i>							
state if flanged (top & bottom)	<i>40</i>			<i>40</i>							
Angles	<i>3</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>3</i>						
MARGIN PLATE, depth (exclusive of flange) and thickness	<i>23</i>		<i>6</i>	<i>23</i>							
Angles to Outside Plating	<i>3 1/2</i>	<i>3 1/2</i>	<i>7</i>	<i>3 1/2</i>	<i>3 1/2</i>						
Floors	<i>3</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>3</i>						
Height of Floors at the Bilges	<i>37</i>			<i>37</i>							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	<i>32</i>		<i>7</i>	<i>32</i>							
thickness in Engine and Boiler space											
Remainder in Holds			<i>7 to 6</i>								
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>4</i>	<i>2 1/2</i>	<i>6</i>	<i>4</i>	<i>2 1/2</i>						
Angles on Upper Edge											
Spacing	<i>21</i>			<i>21</i>							
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb											
Angles on Upper Edge											
Spacing											
BEAMS, Hold, Plate or Tee Bulb											
Angles on Upper Edge											
Spacing											
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb											
Angles on Upper Edge											
Spacing											
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb	<i>4 1/2</i>	<i>3</i>	<i>6</i>	<i>4 1/2</i>	<i>3</i>						
Angles on Upper Edge											
Spacing	<i>42</i>			<i>42</i>							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	<i>4 1/2</i>	<i>3</i>	<i>7</i>	<i>4 1/2</i>	<i>3</i>						
Angles on Upper Edge											
Spacing	<i>42</i>			<i>42</i>							
PILLARS, In 'tween Decks, Size and Spacing	<i>2 1/4 dia</i>	<i>42</i>		<i>2 1/4 dia</i>	<i>42</i>						
Hold	<i>3 to 3 3/8</i>		<i>2 1/2</i>								
Quarter, 'tween Dks.											
in Hold											
WEB FRAMES, In Fore Body, No. and Spacing	<i>2 as on profile</i>										
Brth. & Thickness	<i>15 x 6</i>		<i>15 x 6</i>								
No. of Side Stringers											
WEB FRAMES, In E. & B. Space, No. & Spacing	<i>3 as on profile</i>										
Brth. & Thickness	<i>15 x 6</i>		<i>15 x 6</i>								
No. of Side Stringers											
WEB FRAMES, In After Body, No. and Spacing											
Brth. & Thickness											
No. of Side Stringers											
Size of Angle for Tee Bars to Web Frames	<i>4</i>	<i>3</i>	<i>7</i>	<i>4</i>	<i>3</i>						
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness											

Write "Sheer Strake" opposite to corresponding letter.

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.						PER RULE OR AS APPROVED.		EDGES. Ordinary or Joggled? <i>Ordinary</i>				BUTTS.						
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Diam.	Spacing cr. to cr.			Diam.	Spacing cr. to cr.		Breadth.	Thick-ness.	Breadth.	For what Length.		
	Inches.	<i>1 inch or 20 lbs</i>	<i>1 inch or 20 lbs</i>	<i>1 inch or 20 lbs</i>	Inches.	<i>1 inch or 20 lbs</i>	Inches.	Inches.			Inches.	Inches.		Inches.	<i>1 inch or 20 lbs</i>	Inches.	Feet.		
Flat Plate Keel	—	—	—	—	—	—	—	—	—	—	1	5	—	—	—	—	—	—	
GARBOARD or A Strake ...	31	8	8	8	31	8	Double	4 1/2	3/4	3	<i>D.R.</i>	3/4	2 1/2	9 1/4	8	—	—		
State actual thickness in way of Double Bottom.	B	7	7	6		6	"	"	"	"	<i>TR 1/2 L.</i>	"	"	—	—	7 1/2	<i>Shale</i>		
C		8	7	7		7	"	"	"	"	"	"	"	—	—	"	"		
D		8	7	6		8	"	"	"	"	"	"	"	—	—	"	"		
E		7	6	6		7	Single	2 1/2	"	"	"	"	"	—	—	"	"		
F		6	5	5		6	Double	4 1/2	"	"	"	"	5/8	2 1/4	—	6 1/4	"		
Sheerstrake G	32	9	7	7	32	9					<i>D.R.</i>	3/4	2 1/2	9 3/4	10	—	—		
H											<i>Treble in way of Break R & D</i>								
J																			
K																			
L																			
M																			
N																			
O																			
P																			
DOUBLING of Flat Plate Keel																			
Length of Bilges	6	7/8	for about	50 feet	amidship														
Thickness of Sheerstrakes ..	25	6	"	"	27	at break R & D													
Thickness of Strake below	—	—																	
POOP SIDES																			
RAISED QUARTER DECK SIDES		7/16				7/16													
BRIDGE SIDES		5				5													
FORECASTLE SIDES		5				5													
LENGTHS OF PLATING	8	frame spaces																	

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c.: *Siemens & Martin*
 Frames, keelsons, beams, keelsons & stringers, floors & shell plating, the steel of the keelsons & stringers, keelsons made tanks, Davis Colville & Co. Ltd.
 Has the Steel been tested as required by the Rules *yes*

Main Stringer Plate Butts, treble riveted for *half* length amidship.
 Straps, single, double or overlapped for *whole* length amidship.
 Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? *as reqd*
 Inner Bottom Plating, riveting of Edges *Single* Butts *as reqd*
 Centre Girder Butts, *Treble* riveted. Keelson Butts, *Treble* riveted.
 Frames, riveted through Plates with *3/4* in. Rivets, about *7 to 6* ds. apart.
 Rivets, state whether of Iron or Steel *Iron*

FRAMES extend in one length from *Centre line* to *Top height* state if ordinary or joggled *Ordinary*
 REVERSED FRAMES on floors and frames extend from *Centre line to margin plate and flange* state if ordinary or joggled *Ordinary*
 to stringer above bilge and deck all before R.Q.D.; to side strake deck all in way R.Q.D.; doubled across floors in F.H.S. space

MASTS, SPARS, &c.

LOWER MASTS	Fore	Main	Mizen	Material.		Total length to Mounds.	DIAMETER AND THICKNESS.		No. of Plates in round.	Angles.		RIVETING.	
							Heel.	Head.		Number.	Size.	Seams.	Butts.
				Pine	42-6"	14'	14'	11 1/2"					
				"	42-0"	14'	14'	11 1/2"					
				"	32-0"	10'	10'	7"					
Bowsprit													
Topmasts, Yards and Remainder of Spars <i>pine</i>													
Rigging, Material and Size, Shrouds <i>2 1/4 m. 2 1/2 mizen 2" steel wire</i> Stays <i>2. 3. m. 2 1/2 2 1/2 mizen 2 1/4 steel wire</i>													
Sails, <i>one</i> Suit of <i>one</i> Sails and the following spare sails <i>✓</i>													

Equipment No. *7492* Letter *f* ANCHORS. Tonnage U.Dk. or Plating No. for Traversers

Number of Certificate.	Anchors.	WEIGHT, EX STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 22		Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	Cwts.	qrs.	Tons.	Cwts.	qrs.	lbs.				
29064	1st Bower	9	0	14	0	11	4	2	21	9	0	0	0
29065	2nd	9	0	10	0	11	4	2	21	9	0	0	0
	3rd												
	Collective weight	18	0	24	0					18	0	0	0
29079	Stream	3	0	0	0	5	10	0	0	3	0	0	0
	Kedge	1	0	0	1	7				1	0	0	0

CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length & Size per Table 22.	Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire Towline.	Length and size per Table 22.	
	Length.	Diam.		Supplied.	Per Table 22.						Length.	Cl.		Length.	Cl.
29664	165	1 1/8	27	54.2	54.0	165	1	Steel	not stated. Tipton 22.12.05. Perrins	TOWLINE	75	2 1/2	12 1/2	75	2 1/2
										HAWSERS & WARPS	90	4 1/2	manilla	90	5 1/2
											90	3 1/2	4 to suit burners		
29665	45	2 3/4	15 1/2	Steel wire		45	2 3/4	Steel wire	Blaholm & Rodson 22.11.05						

Boats *3 1/2* 2 fitted and life boats.
 Pumps, Number *three* Diameter of Barrel *2 1/2* State whether they are in efficient working order *yes*
 Windlass is *efficient* Emerson Walker & Chapman *✓* apt. Steam, Shov. Reid & Son's Paisley.
 Engine Room Skylights.—How constructed? *of steel on top of deck casings on raised quarter deck*
 What arrangements for deadlights in bad weather? *Colored lids fitted with strong glass bulbs eyes*
 Coal Bunker Openings.—How constructed? *Steel plates & angles. How are lids secured? in usual way.* Height above deck? *7-8"*
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *2 1/2* Scuppers *8* and *3* free freeing ports *2 1/2* x *1 1/2*
 Ceiling in Holds, thickness and material *3/4* inch *2 1/2* thick *Cargo Batches, thickness and material 2" spruce.*
 Cargo Hatchways.—How formed? *By steel plates and angles, well stiffened.* Hatches.—If strong and efficient? *yes* *2 1/2* thick
 State size No. 1 Hatch (Forward) *20-3 x 13-6* No. 2 Hatch *20-6 x 13-6* No. 3 Hatch *—* No. 4 Hatch *—*
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *one full depth web plate in each hatch and 3 strong fore and afters.* No. of Breasthooks *2* No. of Crutches *decks floor aft.*
 Bulwarks, height above deck and description *Steel plating 5/16" - 1/2" high. Main Rail and Stays, material and size 7/16 x 3/4" Stay 6 x 6"*
 The above is a correct description
 Builder's Signature (here only) *W. H. Macdonald* Surveyor's Signature *J. L. Sinnette*
 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 the case) from Secretary

M. 29. 8. 05 and E. 1. 11. 05

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed where possible.*

Is the riveted work properly closed? *yes.*

Are the liners between the frames and plates solid single pieces? *yes.*

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? *in a few cases.*

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. 23, par 24)? *yes.*

State results of tests *Satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 23, par 25)? *yes.*

State results of tests *Satisfactory.*

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

This Steel Screw Steamer has been built in accordance with the Rules and the enclosed plans submitted to, and approved by the Committee, as per Secretary's letters referred to above.

She is constructed to carry water ballast in way of the hold, and in the fore and after peaks, particulars as noted under.

Has a topgallant fore-castle, bridge and main quarter deck.

It will be observed that in some important respects this vessel has been constructed in excess of approved Rules.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *—* ft., R.Q.D. or Break *84.25* ft., Bridge Dk. *9.92* ft., F'castle *22.45* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated

R.Q.D. is joined to B.D.

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 Bk (Stk)*

Official No. *123158*; Signal Letters *—*

State if Machinery is fitted aft *yes.*

How are the surfaces preserved from oxidation? Inside *Cemented in usual way in way of F.H.S. space, bunkers floors & coated with Bitumastic enamel.* Outside *Coated with paint*

Coated with paint elsewhere.

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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft		
Double bottom, if under Boilers only,			Deep tank, forward		
Double bottom, forward, <i>on 2 Compts</i>	<i>73.5</i>	<i>82</i>	Other tanks, if fitted,		
Total capacity		<i>82 tons</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 <i>yes.</i>		

Order for Special Survey No. *4060*
 Date *16. 10. 05*
 No. *146* in builder's yard
 Dates of Surveys held while building
1905. Sep. 13. Oct. 17. Nov. 8. 20. 28. Dec. 13. 19. 29. 1906. Jan. 11. 17. 26. Feb. 3. 7. 12. 14. 21. 26. Mar. 2. 8. 12. 15. 22. Apr. 24. May 1.
 Total No. of Visits *24.*

The amount of Entry Fee *£ 2 : : : 21 MAY 1906*
 Special *£ 15 : 19 : 9*
 Travelling Expenses, if any *£ 3 : 13 : 9*
 State whether the Vessel has been built under Special Survey *yes.*
 I am of opinion this Vessel should be Classed *100 A 1.*
 With, or without Freeboard, as condition of Class *without.*

Committee's Minute *Glasgow 21 MAY 1906*
 Character assigned *+ 100 A 1 (Steel) Lloyd's acc. P.*

J. L. Sinnette
 Surveyor to Lloyd's Register of British and Foreign Shipping.