

With or Without

Disconnected Erections.

STEEL STEAMER.

THU, APR. 15. 1915

Received at London Office

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

Date of completion of report *13th April 1915*

Port of *Greenock*

No. *16852*

Survey held at *Port Glasgow & Glasgow* Date, First Survey *21st May 1914*

Last Survey *12th April 1915*

On the (State if Single, Twin, or Triple Screw) *Single Screw Steamer "CHRONOS"*

Rig *Fore & Aft schooner*

TONNAGE under 3953.93

CLASS *+100A1*

FEET.

Master *W. Wills*

Year of appointment

(1) As Master in service of owner of present vessel—1914
(2) As Master of this vessel—1915

Tonnage Deck... 117.23

Do. between Tonnage Dk. and 3rd and 4th Dk. 24.14

Total under Upper Dk. 4.5.83

Do. of Poop 128.25

Do. of B.Q. Dk. 94.74

Do. of Bridge House 4.36.12

Do. of Forecastle 218.53

Do. of Houses on Dk. 4145.59

Do. of excess of Hatchways 1396.52

Do. above Crown of Engine Room 137.49

Gross Tonnage 2611.58

Less Crew Space

Less above Crown of Engine Room

TONNAGE FOR FEES..

Less Engine Room

Less Navigation Spaces

Breadth (greatest moulded) 51.25

Depth, at middle of length from top of keel to top of upper deck beams at side 28.5

Transverse Number 79.75

Length on deck from fore part of stem to after part of stern post 365

Longitudinal Number 29108

Depth "d," at middle of length (See Secs. 2 & 13) 16

Proportions—Depths to Length—Upper Deck Beam at side to top of keel 12.13

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

Built at *Port Glasgow*

When built *1915* Launched *18th Jan'y 1915*

By whom built *Messrs Wm Hamilton & Co. Ltd.*

Owners *Messrs Australian Steamships*

Managers *Howard Smith & Co. Ltd.*

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

Residence *London & Melbourne*

Port belonging to *Melbourne*

Register Tonnage as cut on Beam 2611.58

Destined Voyage *Melbourne*

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
365	0		51	3		Do. do. do. do. Second Dk. Beams	26	0 1/2	Two
							17	0 1/2	No. of Tiers of Beams Two

Dimensions of Ship per Register, Length *364.7* breadth *51.45* depth *26.05* Moulded depth, ft. *36* ins. *6* To Bridge Dk. Round of Upper Dk. Beam, Actual *12 1/2* ins.

FRAMING.				PILLARS.			
FRAME, Angles, or E or L Bars amidships	Inches in Ship	Inches in Ship	Inches in Ship	PILLARS, In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches in Ship
Do. in peaks	10 1/2	3 1/2	56	" " Hold			
Do. in way of Double Bottoms at Solid Floors	7	3 1/2	42	" " Quarter 'tween Dks.,			
" " " at intermdt. Bkts.	3 1/2	3 1/2	40	" " in Hold			
Spacing of Frames from centre to centre amidships	36		36				
" " " from 1/2 length to Collision bulkhead	27		27				
" " " in peaks	24		24				
REVERSED FRAME, Angles							
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	40				
" " " at intermdt. Bkts.							
FRAMING, depth of girder							
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships							
" in way of Engine and Boiler Spaces							
" thickness at the ends of vessel			38				
" depth at 1/2 the half breadth, as per Rule							
" height extended at the Bilges							
FLOORS in Cell. Double Bottoms			40				
" state if flanged (top & bottom)			no				
" Spacing of Solid floors	36		36				
CENTRE GIRDER, in Dbl. bottom, dpth. & thcknss.	42		50				
" " Angles, Top	4 1/2	4 1/2	60				
" " " Bottom	4 1/2	4 1/2	60				
" " " to Floors	5	5	56				
" Brackets at intermdt. frmg., width & thcknss							
SIDE GIRDERS, number on each side & thickness	2		38				
" " state if flanged (top and bottom)			no flanging				
" " Angles (top and bottom)	3 1/2	3 1/2	40				
" " " to Floors	3	3	40				
MARGIN PLATE, depth (exclusive of flange) and thickness	39		50				
" " Angle to Outside Plating	3 1/2	3 1/2	46				
" " Floors	6	6	44				
" Brackets at intermdt. frmg., width & thcknss	6	3 1/2	36				
Height of Outside Brackets above at bilge	24		24				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	69		56				
" " in Engine and Boiler space	E-52 B-68		E-52 B-56				
" " Remainder in Holds			54				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8 1/2	3 1/2	52				
" " In way of Long Bridge							
" Spacing	36		36				
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	10 1/2	3 1/2	50				
" Spacing	36		36				
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	5 1/2	3	40				
" Angles on upper edge							
" Spacing	36 to 24		36 to 24				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8 1/2	3 1/2	48				
" Angles on upper edge							
" Spacing	36		36				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7	3	40				
" Angles on upper edge							
" Spacing	27 to 24		27 to 24				

PILLARS.				KEELSONS & STRINGERS.			
PILLARS, In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches in Ship	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate	Inches in Ship	Inches in Ship	Inches in Ship
" " Hold				Rider Plate			
" " Quarter 'tween Dks.,				Flat Plate Keel Angles			
" " in Hold				Horizontal Plates on Floors			
				Angles or Bulb Angles			
				SIDE KEELSONS, Number			
				" Angles or Bulb Angles			
				" Plate above floors, for length			
				" Intercostal Plate for length			
				" Attached to outside Plating with Angle			
				BILGE KEELSON, Angles			
				" Intercostal Plate for length			
				" Attached to outside Plating with Angle			
				SIDE STRINGERS, Number			
				" " Angle			
				" Intercostal Plate, for length			
				" Attached to outside plating with Angle			
				Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	56	60	56
				" " " " br'dth & thickness (in way of Bridge)		60	60
				" " " " Angle (clear of Bridge)	5x5	64	5x5
				" " Tie Plate at sides of Hatchways			
				" Deck * Iron or Steel, for full lng.			
				" " Thickness (clear of Bridge)		46	46
				" " " (in way of Bridge)		44	44
				" Wood Deck, Material & thickness			
				Second Deck Stringer Plate, br'dth & thickness	51	46	46
				" Angles on ditto, No. Two	3 1/2 x 3 1/2	46	3 1/2 x 3 1/2
				" Tie Plates outside Hatchways			
				" Deck * Iron or Steel, for full lng.		32	32
				" 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	36	34	33
				" Angle on ditto	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2
				" Tie Plates		24	24
				" Deck, Material and thickness	5x3 P.P.		
				Bridge Deck Stringer Plate, br'dth & thickness	53 1/2	40	36
				" Angle on ditto	3 1/2 x 3 1/2	40	3 1/2 x 3 1/2
				" Tie Plates		24	24
				" Deck, Material and thickness	see note and 10x12		32
				Forecastle Deck Stringer Plate, br'dth & th'kns	36	34	33
				" Angle on ditto	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2
				" Tie Plates		24	24
				" Deck, Material and thickness	5x3 P.P.		

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

WEB FRAMES.		Inches in Ship.		Inches per Rule.		FORGINGS or CASTINGS.		Inches in Ship.		Inches per Rule.	
WEB FRAMES, In Fore Body, No. and spacing						KEEL, Max. depth and thickness					
" " " " " " " " " " " "						STEM, moulding and thickness		10" x 2 1/4"		10" x 2 1/4"	
WEB FRAMES, In E. & B. Space, No. & spacing		2 as per plan				STERN-POST for Rudder do. do.		9 x 7 1/2"		9 x 7 1/2"	
" " " " " " " " " " " "		30 x 40 30 40				" for Propeller		10 x 7 1/2"		10 x 7 1/2"	
WEB FRAMES, In After Body, No. and spacing						RUDDER-A x D* Table 22. Speed 10-12 knots		519.75		519.75	
" " " " " " " " " " " "						" Main-Piece, diameter at head		10 1/2"		10 1/2"	
" " " " " " " " " " " "		7 x 3 1/2 x 62 7 x 3 1/2 62				" " " " at heel		8"		8"	
BULKHEADS.		Number.		Thickness.		STIFFENERS.		Single or Double Frames.		Height up, state deck.	
W.T. BULKHEADS		6 6		42 to 36"		34 Singl. U.D.R.					
33-54-80				36 x 32 1		9 x 3.50 30					
99				" " 1		10 x 3.54 30					
" COLLISION "				42 to 39 1/2		10 x 3.50 30					
PARTITION "											
LONGITUDINAL "											
Are the outside Plates doubled two spaces of Frames in length? <i>Yes</i>											
Are the Hatch Valves and Watertight Doors in efficient working order? <i>Yes</i>											

PLATING.										RIVETING.									
AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.				
STRAKES.		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.		Ordinary or Joggled?		RIVETS.		STRAPS.		IF LAPPED.	
Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.
FLAT PLATE KEEL	44	94	66	66	46	94	Double	6 3/4	18	4	4 1/2	18	4	16	full				
GARBOARD or A Strake		70	50	52	70			6	1			1 1/2	1	14					
B "		70	46	52	70														
C "		70	46	52	70														
D "		70	48	52	70														
E "		70	46	52	70														
F "		70	44	50	70														
G "		70	44	44	70														
H "		70	44	44	70														
J "		74	44	44	74														
Sheerstrake	52	88	44	44	52	88								5 1/2				14	
L "																			
M "																			
N "																			
O "																			
P "																			
Q "																			
R "																			
S "																			
T "																			
U "																			
V "																			
W "																			
THICKNESS OF SHEET PILE																			
CLEAR OF LONG BRIDGE																			
DO. OF STRAKE BELOW																			
DBLG. of Flat Plate Keel																			
" Sheerstrakes																			
Length and thickness.																			
POOP SIDES																			
SHORT BRIDGE SIDES																			
FORECASTLE SIDES																			

Upper Deck		Butts, riveted for		length amidship.		Butts of Side Stringers		riveted.	
Stringer Plate	Straps, single, double or overlapped for	full	length amidship.			"	Tie Plates		riveted.
Second Deck	Butts, riveted for	half	length amidship.			Inner Bottom Plating, riveting of Edges	Double & single Butts	2 R for 2 R	
Stringer Plate	Straps, single or overlapped for	full	length amidship.			Centre Girder Butts, riveted	Keelson Butts		riveted.
						Frames, riveted through Plates with	7/8 in. Rivets, about	4 1/8 V apart.	
						Rivets, state whether Iron or Steel	Iron.		

FRAMES extend in one length from *centre line* to *margu plate* then to *gunwale* state if ordinary or joggled *Joggled*

REVERSED FRAMES on floors and frames extend from *centre line* to *margu plate* state if ordinary or joggled *Joggled*

MASTS, SPARS, &c.									
		DIAMETER AND THICKNESS.				No. of Plates in Spaul.		ANGLES.	
		At Partners.		Heel.		Hounds.		Heel.	
LOWER MASTS.	Fore	Steel	10 1/2	24 x 7/20	24 x 7/20	20 x 7/20	9 x 7/20	Two	2
	Main	"	"	"	"	"	"	"	"
	Misc.	"	"	"	"	"	"	"	"
Rigging, Material and Size, Shrouds		Sails		Sails		Sails		Sails	
Sails.		One		Suit of		Sails, and the following spars		Sails	

EQUIPMENT No. 30287		LETTER X.		ANCHORS.		TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS	
Number of Certificate.	18652	1st Bower	56	2 21	Stockless	46	9 8 14
	18651	2nd "	56	2 14	"	46	7 3 7
	18525	3rd "	48	1 0	"	41	5 2 14
		4th "			"	47	2 0
		Collective weight	161	2 7		160	0 0
	10738	Stream	15	0 14	3 3 7	16	12 0 0
	10739	Kedge	6	2 3	1 2 17	8	16 0 0

CHAIN CABLES.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 31.		Description of Anchor.		Makers.		Where and when tested and Superintendent.	
Number of Certificate.	15662	Patrons.	270	2 1/8	81 1/4	113 1/4	610 3-1	608 2-14	270	2 1/8	270
	43901	Patrons.	31 1/2	2 1/8	81 1/4	113 1/4	610 3-1	608 2-14	270	2 1/8	270

Boats 2 lifeboats and 2 dingys. Steering Gear, Steam *Hastie's* for. Steering Gear, Hand *Crane* for. State whether they are in efficient working order *Yes*

Pumps, Number *One* Downton pump & pump to peak Diameter of Barrel *5 1/4"*

Windlass is of iron, steam, makes *Clark's* Chapman *Co* for. Capstan

Engine Room Skylights.—How constructed? *Steel plates & angles* What arrangements for leadlights in bad weather? *Strong bullseyes.*

Coal Bunker Openings.—How constructed? *Steel plates & angles* How are lids secured? *Plate, bottom & tarp.* Height above deck? *30"*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 3 scuppers for 4 aft each side, 4 freeing ports for 4 aft 40 x 21"

Ceiling in Holds, thickness and material *2 1/2 W.P. over lumber only* Cargo Battens, thickness and material *6 x 2 W.P.*

Cargo Hatchways.—How formed? *Steel plates & angles* Hatches, If strong and efficient? *Yes 3" solid.*

State size No. 1 Hatch (Forward) *31' 6" x 22'* No. 2 Hatch *36' x 22'* No. 3 Hatch *33' x 22'* No. 4 Hatch *33' x 22'*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *5 webs in each hatchway, 10 fore & afters.*

No. of Breasthooks *5* No. of Crutches *dup* floors.

Bulwarks, height above deck and description *Steel 42 x 35* Main Rail, material and size *B.A. 6 x 3 1/2 x 35*

The foregoing is a correct description: *ALAN HAMILTON & CO., LIMITED,* Surveyor's Signature *Robert Howie*

Builder's Signature (here only) *Alex McFerry* Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) *1. 14. 14, 20. 4. 14, 21. 4. 14, 22. 4. 14, 4. 5. 14, 18. 5. 14, 20. 5. 14, 4. 6. 14, 17. 6. 14, 2. 9. 14, 23. 9. 14, 12. 1. 15.*

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

Is the riveted work properly closed? *Yes*

Are the liners between the frames and plates solid single pieces? *Joggled frames* 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 facing surfaces? *Yes* Do any rivets break into or through the seams or butts of the plating? *A very few*

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* 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.) *This vessel has been built in accordance with the approved plans, the Secretary's letters referred to above and in conformity with the Society's Rules*

The materials used in the vessels construction are good and the workmanship is good.

2 Reports on forgings forwarded herewith.

2 " " castings " " " "

This vessel was planed in dry dock, bottom and rudder cleaned, examined, found in good condition and afterwards recated.

The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee £ 5 : 0 : 0 *9th Mar. 1915* Fees applied for, *14/4/15*

Special Survey Fee ... £ 128 : 13 : 0 Received by me. *11th Mar. 1915*

Travelling Expenses, if any £ : : Certificate to be sent to *Greenock* Date of issue *14/4/15*

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. 16. 1915*

Character assigned *100 A1.*

Lloyd's A.C.P. + L.M.C. 4.15.

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

Robert Howie

Committee's Minute *FRI. APR. 16. 1915*

Character assigned *100 A1.*

Lloyd's A.C.P. + L.M.C. 4.15.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.75 ft., R.Q.D. ☒ ft., Bridge 81 ft., Forecastle 33.45 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

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). 2 Decks (Stl.)

Official No. _____; Signal Letters _____ State if Machinery is fitted aft no
How are the surfaces preserved from oxidation? Inside Cement and 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,	<u>123</u>	<u>339</u>	Fore peak tank,		<u>91</u>
Double bottom, under Engines and Boilers,	<u>60</u>	<u>254</u>	After peak tank,		<u>212</u>
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<u>135</u>	<u>456</u>	Other tanks, if fitted,		
		Total capacity of double bottom <u>1049</u>	(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. 2781

Date 18th May 1914

No. 300 in builder's yard.

DATES OF SURVEYS
held while building

1914 May 21-26-28-29 June 4-9-10-16-19-23-25-30 July 16-21-29-31 Aug. 4-12-17-18-25-28-31 Sept. 2-3-7-9-16-18-22-24-28-30
Oct. 2-6-8-12-15-20-23-27-29 Nov. 6-10-12-17-19-23-27 Dec. 7-11-16-17-18-22-24-29-30 1915 Jan. 8-12-14-15-18 Feb. 17-21
Mar. 19-25 Apr. 1-6-12

Total No. of Visits 70

Surveyor's Signature

Robert Howie

Lloyd's Register
Foundation