

3 Decks.

IRON OR STEEL STEAMER.

Received at London **WED. 4 DEC 1907**

Date of completion of report

Survey held at

On the

TONNAGE under Tonnage Deck...

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

Total under Upper Dk.

Do. of Poop

Do. of House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage as cut on Beam

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

Port of

Date, First Survey

T.S.S. *Kia Ora*

THREE DECKED VESSEL.

CLASS *100A.1. Shelter*

Half Breadth (moulded)

Depth from upper part of Keel to top of Upper Deck Beams

Girth of Half Midship Frame (as per Rule)

deduct 7 feet

1st Number

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

2nd Number

Proportions—Breadth to Length

Depth to Length—Upper Deck to top of Keel

Depth to Length—Upper Deck to top of Keel

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Master

Year of appointment

Residence

Port belonging to

When built

By whom built

Owners

Managers

Residence

Port belonging to

When built

By whom built

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PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES, Ordinary or jogged?				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.	Inches.	Inches.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.
FLAT PLATE KEEL	46	20	16	16	46	15	1/2	6 3/4	1 1/2	4 1/2	1/2	1 1/2	1 1/2	4	2 1/2	1 1/2	10 1/2	Full	
(If Bar Keel, state Riveting.)	48	15	14	15	48	15	"	6	1	3 3/4	"	1	3 1/2	"	"	"	"	"	
GARBOARD OR A Strake ...		13	11	13		14	"	5 1/4	7/8	3 3/4	2	1/8	3 1/2				12	"	
State actual thickness in way of Double Bottom.	B	13	10	13		14	"	"	"	"	"	"	"				"	"	
	C	13	11	12		14	"	"	"	"	"	"	"				"	"	
	D	14	10	13		14	"	"	"	"	"	1	4				14	"	
	E	14	11	12		14	"	"	"	"	"	"	"				"	"	
	F	13	10	12		13	"	"	"	"	"	7/8	3 1/2				12	"	
	G	14	11	13		14	"	"	"	"	"	1	4				14	"	
	H	13	10	13		13	"	"	"	"	"	7/8	3 1/2				12	"	
	J	14	11	11		14	"	"	"	"	"	1	4				14	"	
	K	14	10	10		14	"	6	1	3 3/4	"	"	"				"	"	
Green Strake	M	57	15	11	11	57	15	"	"	"	"	"	"				"	"	
Speller Dr	N	48	15	9	9	48	15	"	"	"	"	1/2	"				"	"	
Green Strake	O											3/4	"				"	"	
	P																		
	Q																		
	R																		
	S																		
DOUBLING of Flat Plate Keel	Flat bar keel 10 x 1 1/2 in. lie																		
Length and thickness of Bilges	Plating increased in lie																		
of Sheerstrakes																			
of Strake below																			
POOP SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			

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, Plating, &c. *Open Hearth. Lanarkshire Steel Co. Steel Co. of Scotland, South Durham Steel & Iron Co. Dowlais Cardiff Works. Barrow Haematite Steel Co. Ltd. J. & F. Colville & Sons. Clyde Bridge & Shipbuilding Co. Ltd.*

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

Upper Deck Butts, treble riveted for *full* length amidship.

Stringer Plate Straps, single, double or overlapped for *full* length amidship.

Middle Deck Butts, treble riveted for *full* length amidship.

Stringer Plate Straps, single, double or overlapped for *full* length amidship.

Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *DBL*

Inner Bottom Plating, riveting of Edges *DBL*

Centre Girder Butts, *2nd* riveted *DBL*

Keelson Butts, *DBL* riveted.

Frames, riveted through Plates with *Iron* in. Rivets, about *6 1/2* apart.

Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from *Centre girder* to *Margin plate & to Shell* State if ordinary or jogged *Ordinary*

REVERSED FRAMES on floors and frames extend from *Centre girder & Margin plate & to Shell* State if ordinary or jogged *Ordinary*

to Upper Deck and every fourth reverse to Shell & Dr

MASTS, SPARS, &c.										RIVETING.						
	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		Seams.	Butts.					
			At Partners.	Heel.	Hoards.	Head.		Number.	Size.							
LOWER MASTS.....	Fore	<i>Steel</i>	<i>61.4</i>	<i>27 x 9/20</i>	<i>20 x 1/20</i>	<i>21 x 1/20</i>	<i>2</i>	<i>3</i>	<i>3 1/2 x 3 1/2 x 1/20</i>	<i>Sgl</i>	<i>DBL & DBL</i>					
	Main	<i>"</i>	<i>53.9</i>	<i>22 1/2 x 9/20</i>	<i>18 x 9/20</i>	<i>17 x 1/20</i>	<i>2</i>	<i>None</i>	<i>Sgl</i>	<i>DBL</i>	<i>DBL</i>					
	Mizen.....															
Bowsprit																
Topmasts, Yards and Remainder of Spars	<i>Pitch pine</i>															
Rigging, Material and Size, Shrouds	<i>4 1/2 & 4" Steel wire</i>															
Sails.	<i>One</i> Suit of <i>fore and aft</i> Sails, and the following spare sails <i>Stays 2 3/4 - 3 - 4 1/2, 4 1/2" Steel wire</i>															
EQUIPMENT No. <i>60751</i> LETTER <i>ct</i>	ANCHORS.															
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.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.			
<i>59780</i>	1st Bower ...	<i>88</i>	<i>1</i>	<i>21</i>	<i>88</i>	<i>0</i>	<i>14</i>	<i>62</i>	<i>15</i>	<i>0</i>	<i>0</i>	<i>77</i>	<i>0</i>	<i>0</i>	<i>Halls Cast Steel</i>	<i>H. Hingley & Son LPHN. 28/8/07. H 9</i>
<i>59749</i>	2nd "	<i>88</i>	<i>0</i>	<i>14</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>62</i>	<i>15</i>	<i>0</i>	<i>0</i>	<i>77</i>	<i>0</i>	<i>0</i>	<i>Head "</i>	<i>" 28/8/07 "</i>
<i>59781</i>	3rd "	<i>88</i>	<i>0</i>	<i>13</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>62</i>	<i>15</i>	<i>0</i>	<i>0</i>	<i>65</i>	<i>2</i>	<i>0</i>	<i>"</i>	<i>" 5/9/07 "</i>
	4th "															<i>Hammer drops & Bend</i>
	Collective weight	<i>264</i>	<i>2</i>	<i>20</i>								<i>219</i>	<i>2</i>	<i>0</i>		
<i>59934</i>	Stream	<i>22</i>	<i>0</i>	<i>1</i>	<i>5</i>	<i>2</i>	<i>23</i>	<i>22</i>	<i>9</i>	<i>1</i>	<i>14</i>	<i>22</i>	<i>0</i>	<i>0</i>	<i>Rodgers</i>	<i>LPHN. 24/9/07. H 9</i>
<i>59939</i>	Kedge.....	<i>10</i>	<i>1</i>	<i>25</i>	<i>2</i>	<i>2</i>	<i>24</i>	<i>12</i>	<i>8</i>	<i>3</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>0</i>	<i>"</i>	<i>" 24/9/07 "</i>

CHAIN CABLES.										HAWERS AND WARPS									
Number of Certificate.	Length and size supplied.		Test per Certificate. Statutory. Breaking. ing.	WEIGHT OF CHAIN CABLE.		Length and 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.	Diam.		Length.	Cir.	Length.	Cir.		
<i>40905</i>	<i>150</i>	<i>2 1/2</i>	<i>106 1/2</i>	<i>149 1/2</i>	<i>444</i>	<i>324</i>	<i>890</i>	<i>1.4</i>	<i>300</i>	<i>2 1/2</i>	<i>Slud</i>	<i>H. Hingley & Son LPHN. 19/10/07</i>	<i>130</i>	<i>5 1/4</i>	<i>78</i>	<i>130</i>	<i>5 1/4</i>		
<i>40899</i>	<i>150</i>	<i>2 1/2</i>	<i>"</i>	<i>"</i>	<i>445</i>	<i>315</i>						<i>26/9/07</i>	<i>130</i>	<i>5 1/4</i>	<i>78</i>	<i>130</i>	<i>5 1/4</i>		
Iron Stream Chain or Steel Wire	<i>120</i>	<i>5</i>	<i>64</i>	<i>890</i>	<i>0</i>		<i>120</i>	<i>5</i>				<i>14 Green Sup 12</i>	<i>120</i>	<i>7</i>	<i>Man</i>	<i>100</i>	<i>8</i>		

Boats *6* *28 ft* life boats *4* *26 ft* whale boats.

Pumps, Number *10* *5* and *1-4* Diameter of Barrel State whether they are in efficient working order *Yes*

Windlass is *Iron patent* Capstan

Engine Room Skylights.—How constructed? *Steel casings*

What arrangements for deadlights in bad weather? *Steel shutters & glass lights*

Coal Bunker Openings.—How constructed? *Side ports* How are lids secured? *Bolted* Height above deck?

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *1* *Freeing port* *4* *6* scuppers each side

Ceiling in Holds, thickness and material *2 1/2 W.P.* Cargo Battens, thickness and material *2" W.P.*

Cargo Hatchways.—How formed? *Steel coverings* Hatches, If strong and efficient? *Yes*

State size No. 1 Hatch (Forward) *17.41 x 16.6* No. 2 Hatch *21.5 x 16.6* No. 3 Hatch *13.0 x 16.6* No. 4 Hatch *17.4 x 16.6* Tonnage *1000*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *2* *Web* *4* *2* *Beams* in *1st* *2* *hatch* *1* *Web* *4* *2* *Beams* in *4th* No. of Breasthooks *8* No. of Crutches *3* *8* *Scup* *floor*

Bulwarks, height above deck and description *Open rails* Main Rail, material and size

The above is a correct description

Builder's Signature (here only) *WORKMAN, CLARK & CO., LIMITED* Surveyor's Signature *E. J. Milton* 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)

M. 20.12.06. 9.4.07

Workmanship. Are the butts of plating planed or otherwise fitted?

Planed & Lapped.

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?

A 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. 23, par. 24)?

Yes.

State results of tests

Good.

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

Yes.

State results of tests

Good.

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

This vessel has been built in accordance with the Rules, the approved plans and the Secretary's Letters quoted above. The workmanship and materials are good throughout. The vessel is insulated in Nos. 1, 2 & 4 holds, for the carriage of frozen meat cargoes.

The chain cables are lighter than the Rule requirements but the deficiency is so slight, that they are recommended for approval.

This vessel is very similar to SS Matatua Belfast report 5689

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

ARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. or Break ft., Bridge Dk. ft., F'castle ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. Complete Shelter Deck.

o. 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 (Steel & W.S.) & Shelter Deck (Steel & W.S.) & Deep framing

Official No. 124487; Signal Letters

State if Machinery is fitted aft

No.

How are the surfaces preserved from oxidation? Inside

Portland Cement & Paint

Outside

Paint.

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	95' 4"	341	Fore peak tank,		
Double bottom, under Engines and Boilers,	80' 2"	345	After peak tank,	18	54
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	190' 8"	619	Other tanks, if fitted,		
Total capacity of double bottom		1305	(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. 521

Date

15th April 1907

DATES of Surveys held while building

1907. Feb. 8, 19, 26, 28. Mar. 5, 11, 13, 22, 28. April 2, 9, 11, 15, 17, 18, 30. May 1, 6, 14, 16, 21, 28. July 8, 10, 31. Aug. 1, 7, 12, 14, 20, 22, 27. Sep. 2, 4, 5, 9, 10, 17, 19, 20, 23, 25, 30. Oct. 3, 4, 8, 9, 10, 18, 24, 25, 29. Nov. 5, 6, 7, 11, 12, 15, 16, 18, 20, 21, 22.

to 255 in builder's yard.

Total No. of Visits 63.

The amount of Entry Fee £ 5 : 0 : 0

Special Survey Fee £ 188 : 15 : 0

Travelling Expenses, if any £ 183 : : :

Fees applied for,

2nd Dec 1907

Received by me,

23/12/07

Certificate to be sent to

This Office.

State whether the Vessel has been built under Special Survey

am of opinion this Vessel should be Classed

100 A. 1. Steel Shelter Deck with freeboard.

With, or without Freeboard, as condition of Class

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

Committee's Minute

Character assigned

FRI. 6 DEC 1907

100 A. 1. Steel Shelter Deck with freeboard 55.11 1/2

Lloyds A & B. P.

M.

+ L.M. 6. 11. 07
J.D. Blacklight

Cep. 27/12/07

W31-0153 (2/2)