

STEEL STEAMER ~~OR MOTORSHIP~~

Discharged

Received at London Office 8 SEP 1920

SECTION

No. 961

No. 45916

Date of completion of report

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*

Survey held at

*Old Kilpatrick*

Date First Survey

Port of

*Glasgow*Last Survey *24<sup>th</sup> August 1926*

On the

(State if Machinery fitted Aft and (if Single, Twin or Triple Screw)

*STL SINGLE SC. S. WAIPATA*

(MACHINERY AFT.)

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

*FULL SCANTLING*

State Type of Erections

*POOP, BRIDGE & FORECASTLE*

TONNAGE under Tonnage Deck

*2539.04*

CLASS

*100A1*

State if with freeboard as condition of Class

*WITHOUT*

Built at

*Old Kilpatrick*

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

*L 315.0*

Breadth (greatest moulded)

*B 45.0*

Total

*2539.04*

Gross Tonnage

*2825.58*

Register Tonnage

*1603.14*1st Longitudinal Number (L x D) = *4080*2nd Numeral L x (B + D) = *22154*

Framing Depth "d," at middle of length. See Sec. 3 (1d)

*13.8 1/2*

Proportions—Depth to Length—Uppermost continuous deck to top of keel

*12.435*

Do. Long Bridge to top of keel

Draught Moulded

*21.3*Launched *July 8<sup>th</sup> 1926* Yard No. *258*Builders *Messrs Harland & Wolff Ltd.*Owners *Union Steamship Co. of New Zealand*

Managers

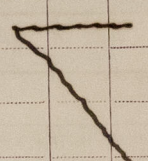
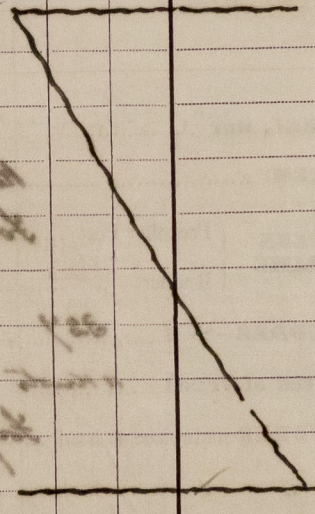
(Where necessary to be entered in Reg. Book.)

Residence *Dunedin N.Z.**188 Leadenhall St. London*Port of Registry *Wellington N.Z.*

If surveyed while building, afloat, or in dry dock

*Yes*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b>	<i>25 1/2</i>		<b>Bracket Floors, Frame</b>		
" " from 1/2 length to Collision bulkhead	<i>24</i>		" " Reversed Frame		
" " in peaks	<i>24</i>		" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	<i>3 1/2 x 4 1/4</i>	
<b>Frame Amidships, Angle</b> <i>E or C</i>	<i>8 x 3 1/2 x 40</i>	<i>36</i>	<i>Double in 6' space</i> " " top Angles	<i>5 x 5 x 44</i>	<i>1 1/2 x 4 1/2 x 44</i>
" " Extends up to <i>UPPER DECK AFT FRAME 46</i> <i>2ND DECK FORWARD OF FRAME 46</i>			" " bottom Angles	<i>5 x 5 x 51</i>	
<b>Reversed Frame Amidships, Angle</b>	<i>None</i>		<b>Side Girders, No. each side and thickness</b>	<i>2</i>	<i>35</i>
" " Extends up to			<b>Margin Plate depth (excl. of flange) and thickness</b>	<i>28 x 42</i>	
<b>Depth of Framing Girder</b>	<i>8"</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<i>3 1/2 x 3 1/2 x 41</i>	
<b>Frames in Uppermost Continuous 'tween Decks, Angle</b> <i>E or C</i>	<i>8 x 3 1/2 x 40 AFT N° 46</i> <i>6 x 3 1/2 x 40 FORWARD OF N° 46</i>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<i>3 1/2 x 3 1/2 x 41</i>	
" " <b>Second 'tween Decks, Angle</b> <i>E or C</i>			" " Gussets, spacing and scantling abaft 1/2 len. from stem	<i>Continuous gusset</i>	
" " <b>Third</b>			" " Gussets, spacing and scantling forward 1/2 len. from stem	<i>80 80 80</i>	
<b>Framing in Peaks, Angle</b> <i>E or C</i>	<i>4 x 3 1/2 x 38</i>	<i>4 x 3 x 30</i>	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	<i>4' 9"</i>	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	<i>4 dia.</i>		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b>	<i>Yes</i>		Breadth and thickness of Middle Line Strake	<i>47 x 43</i>	<i>all double bottom in 8' space + 04' above rule</i>
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars	<i>Main panels increased 2' Panting stringers, riveting through to frame &amp; shell 5' dia. space &amp; as per approved plan</i>		Thickness of remainder in Holds	<i>34</i>	
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars	<i>Frames 6 x 6 x 35. Riveting shell plating riveted as per approved plan</i>		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	<i>40</i>	
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b>			<b>Uppermost Continuous Deck, amidships</b>	<i>1/2 Beams 2 1/2 x 3 x 40</i>	
Height of Brackets at side above base line at toe of frame			" " in Wells, Angle <i>E or C</i>	<i>4 x 3 x 34</i>	
<b>Middle Line Keelson, on Floors, Angles</b>			" " in way of Bridge, Angle <i>E or C</i>	<i>4 x 3 x 34</i>	
" " Through Plate or Intercoastal Plate			Spacing	<i>25 1/2</i>	
" " Foundation Plate on Floors			<b>Second Deck, amidships, Angle</b> <i>E or C</i>	<i>4 x 3 x 34</i>	
" " Flat Plate Keel Angles			Spacing	<i>25 1/2</i>	
<b>Side Keelsons, No. each side</b>			<b>Third Deck, amidships, Angle</b> <i>E or C</i>		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			<b>Fourth Deck, amidships, Angle</b> <i>E or C</i>		
<b>DOUBLE BOTTOM.</b>			Spacing		
<b>Solid Floors, thickness and spacing</b>	<i>35- 25 1/2 apart</i>		<b>Poop Deck, Angle</b> <i>E or C</i>	<i>6 x 3 x 20</i>	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Spacing	<i>25 1/2</i>	
<b>Bracket Floors, breadth and thickness at middle line</b>	<i>none</i>		<b>Bridge Deck, Angle</b> <i>E or C</i>	<i>6 x 3 x 31</i>	
" " breadth and thickness at margin plate	<i>none</i>		Spacing	<i>25 1/2</i>	
			<b>Forecastle Deck, Angle</b> <i>E or C</i>	<i>4 x 3 1/2 x 35</i>	<i>6 1/2 x 3 x 35</i>
			Spacing	<i>24</i>	



# PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows.....				Stringer Plate, breadth and thickness in way of Bridge .....			
"    in 'tween Decks, Size and Spacing.....	<i>Two rows of wide spaced pillars</i>			Thickness of Plating abreast Deck openings in way of Wells .....	.20		
"    "    "    "    "    "	<i>spaced pillars</i>			Thickness of Plating abreast Deck openings in way of Bridge .....	.30		
"    in Holds .....	<i>given as per approved plan</i>			Thickness of Plating within line of openings...	.20		
"    "    "    "    "    "	<i>plan</i>			If Sheathed, material and thickness .....	<i>not sheathed</i>		
<b>Centre Line Bulkhead.</b>				<b>Third Deck.</b>			
Stiffeners and Spacing.....	<i>none</i>			Stringer Plate, breadth and thickness.....			
Plating, thickness of .....	<i>"</i>			If Plated, state thickness.....			
<b>STRINGERS AND DECKS.</b>				<b>Fourth Deck.</b>			
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in Wells	<i>48 x .79</i>	<i>.91</i>		If Plated, state thickness .....			
"    "    "    "    in way of Bridge	<i>48 x 1.0</i>	<i>.92</i>		<b>Poop Deck.</b>			
"    Angle in Wells .....	<i>6 x 6 x .41</i>			Stringer Plate, breadth and thickness .....	<i>48 x .48</i>	<i>.44</i>	
Thickness of Plating abreast Deck openings in way of Wells .....	<i>.46</i>	<i>.38</i>		Plating, Sheathing, material and thickness ...	<i>.38</i>	<i>.34</i>	
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>"</i>			<b>Bridge Deck.</b>			
Thickness of Plating within line of openings...	<i>.45</i>	<i>.37</i>		Stringer Plate, breadth and thickness.....	<i>37 x .38</i>		
If Sheathed, material and thickness .....	<i>none</i>			Plating, Sheathing, material and thickness ...	<i>.26</i>	<i>Sheathed 5 x 3 p.p.</i>	
<b>Second Deck.</b>				<b>Forecastle Deck.</b>			
Stringer Plate, breadth and thickness in Wells...	<i>44 x .34</i>			Stringer Plate, breadth and thickness.....	<i>30 x .32</i>		
				Plating, Sheathing, material and thickness ...	<i>.26</i>	<i>Sheathed 5 x 3 p.p.</i>	

## SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.			ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.		
	AMIDSHIPS.		FORWARD.		State if jogged?	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.	
	Breadth.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.
	Inches.	Inches.	Inches.		Single or Double.	Diam. Inches.		Inches.	Inches.
FLAT PLATE KEEL .....	<i>.47</i>	<i>.66</i>	<i>.60</i>	<i>.60</i>	<i>Double</i>	<i>7/8 3 1/16</i>	<i>3R</i>	<i>7/8</i>	<i>3 1/16</i>
"    DBLG. (if any)	<i>Rubbing plate aft 10 x .62</i>								
BOTTOM PLATING, No. of Strakes ....	<i>.52</i>	<i>.42</i>	<i>.42</i>	<i>Three strakes of</i>	<i>Double</i>	<i>7/8 3 3/16</i>	<i>3R</i>	<i>7/8</i>	<i>3 1/16</i>
BILGE PLATING, No. of Strakes .....	<i>.52</i>	<i>.42</i>	<i>.42</i>	<i>bottom plating</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
SIDE PLATING, No. of Strakes .....	<i>.52</i>	<i>.42</i>	<i>.42</i>	<i>have midship</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Wells.....	<i>.48</i>	<i>.64</i>	<i>.42</i>	<i>thickness carried</i>	<i>"</i>	<i>"</i>	<i>4R</i>	<i>7/8</i>	<i>3 1/2</i>
UPPER DECK, Sheer-strake in Bridge ...	<i>.87</i>			<i>forward as per plan</i>	<i>1</i>	<i>3 9/16</i>	<i>5R</i>	<i>1</i>	<i>4 1/2</i>
STRAKE BELOW Sheer-strake in Wells.....	<i>.48</i>	<i>.59</i>	<i>.42</i>	<i>Plating increased at</i>	<i>7/8</i>	<i>3 3/16</i>	<i>3R</i>	<i>7/8</i>	<i>3 1/16</i>
STRAKE BELOW Sheer-strake in Bridge ...	<i>.59</i>			<i>stern post trans.</i>	<i>"</i>	<i>"</i>	<i>3R</i>	<i>"</i>	<i>"</i>
POOP SIDE PLATING .....	<i>.52</i>	<i>.49</i>	<i>.34</i>	<i>(= .59 at Break-)</i>	<i>Double</i>	<i>3/4 2 7/8</i>	<i>3R</i>	<i>3/4</i>	<i>2 5/8</i>
BRIDGE SIDE PLATING ...	<i>.38</i>				<i>Single</i>	<i>"</i>	<i>2R</i>	<i>3/4</i>	<i>2 5/8</i>
FORECASTLE SIDE PLATING	<i>.38</i>				<i>Single</i>	<i>"</i>	<i>2R</i>	<i>3/4</i>	<i>2 5/8</i>

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)		5			
" Deck next below		✓			
As per Rule		approved — 5			
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks		.26	5 1/2 x 3 1/2	L 33	✓
"	" Second "	"			
"	" Third "	"			
"	" Holds	.43	.20	9 1/2 x 3 1/2	51 23
COLLISION (in Hold)		.51	.24	5 x 3 x 38	granted 2 1/2
AFTER PEAK		.42	.30	9 1/2 x 3 1/2	50 " 2 1/2

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	<i>Hot metal</i>			
STEM .....	<i>Roller</i>	<i>3 1/2 x 2 1/4</i>	<i>Steel Co. of Scotland</i>	
STERN FRAME	Propeller Post .....	<i>Forged 9 1/2 x 6 1/8</i>	<i>Life Line</i>	
	Rudder .....	<i>" 8 1/2 x 6 1/8</i>	<i>"</i>	
RUDDER—A x D .....	<i>33 1/2</i>			
Speed of Vessel .....	<i>11 knots</i>			
RUDDER mainpiece at head	<i>Forged</i>	<i>8 1/2 x 8 1/2</i>	<i>as per report (forging)</i>	
"    "    heel .....	<i>"</i>	<i>6 1/8</i>		
"    how constructed	<i>As per structural on main piece</i>			
double or single plate coupling, vertical or horizontal.....	<i>Single plate 1" 04</i>			

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) .....			
	<i>Steel Co. of Scotland - W. &amp; A. Rennie &amp; Co. David Colville</i>			
	Has the Steel been tested as required by the Rules? .....			
	<i>Yes</i>			



EQUIPMENT No. 22276											LETTER	u	ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 63.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
59595	1st Bower ...	46	0	0	✓	✓	✓	39	17	2	0	128 cast	Trojan Stockless	S. Taylor	Litho 18/26 W. A.	
59593	2nd „ ...	46	8	21	✓	✓	✓	39	15	3	21		„	„	„	Rysdale
59594	3rd „ ...	38	3	34	✓	✓	✓	35	2	2	0		„	„	„	
	Collective weight	130	3	17								128-0-0	Common	S. Taylor	„ 3/16/26 W. A. Rysdale	
59616	Stream .....	12	1	31	3	1	21	14	4	0	4					

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		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 53.	
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.		Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
3969	270	1 1/2	66 1/2	94 1/2	530.0.16			5 1/2	270	1 1/2	clad	S. Taylor	4.24/25	TOWLINE...	100	7	33	100	7
Iron Stream Chain or Steel Wire	90	Cir. 1 1/4	36	✓	✓	✓	✓	✓	90	Cir. 1 1/4	✓	✓	L. Haffner	HAWSERS & WARPS	2@90	2 1/2	12 1/2	180	2 1/2
														"	2@90	2 1/4	9 1/2	180	2 1/4
														"	also a good outfit of				

Steering Gear, Steam
*Brown Bros Steam*
Steering Gear, Hand
*Black & Siddle*

Boats
*2 Life & 2 other*
Steering Chains, Size and Test
*none*
Windlass
*black Chapman*

Ceiling in Holds, thickness and material
*3/2 W.P.*
Cargo Battens, thickness, material and spacing
*6 x 3 1/2 W.P. Vertical as approved*

Cargo Hatchways.-(Upper Deck)
*Sheet of steel plate 1/4" thick*
Thickness of Hatches
*2 1/2*

Size of No. 1 Hatchway (Forward)
*20'0" x 15'0"*
No. 2
*24'0" x 16'0"*
No. 3
*28'0" x 16'0"*
No. 4
*28'0" x 16'0"*
No. 5
*28'0" x 16'0"*
No. 6
*28'0" x 16'0"*

Number of Shifting Beams and/or Fore and Afters
*h<sup>2</sup>1 = 3 webs h<sup>2</sup>2 = 4 webs h<sup>2</sup>3 = 5 webs*

For NAPIER & MILLER, LIMITED

Builder's Signature
*[Signature]*
DIRECTOR

GENERAL DECLARATION *The vessel has been built in accordance with the approved plans, Secretary's Letter in other respects in conformity with the revised rules for the class contemplated.*  
*The materials workmanship are good.*  
*It is stated that the double bottom tanks in holds may be used for the carriage of oil fuel at some future time in preparation for this the tanks in question have been tested accordingly & other requirements of section 35 of the rules have been complied with as follows:-*  
*Wire gauge fitted to the top of the air pipes.*  
*Hold ceiling laid on 2" bottom.* - *Blank flanges supplied for the sections of the ballast tanks in holds.*  
*The double bottom tanks & peak tanks have been tested under water pressure & the weather decks, bulkheads & stowage have been fore tested & all found satisfactory.* - *The foreboards have been verified & seen in on the fore side.*

The amount of Entry Fee ..... £ 6 : 0 : 0
Special Survey Fee ... 216 : 6 : 0
PREBOARD - Travelling Expenses, if any £ 8 : 0 : 0

Fees applied for, 2.9.26.
Received by me, 7.9.26.

I am of opinion the Vessel should be Classed *100.A1.*

State whether the Vessel has been built under Special Survey *Yes*
Signature *[Signature]*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Glasgow* Date of issue *9/9/26*

Committee's Minute *GLASGOW 7-SFP 1926*

Character assigned *+100.A1*

*8.26.*  
*Lloyd's A.C.P.*  
*+L.M.C.8.26.F.D.*

The Surveyors are requested not to write on or below the Committee's Minute.



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

At the owners' request heavy bulk angle frames 12" x 4" x 7/8" have been fitted at frames 45, 86, 88, 89, 115, 125.

On account of the vessel colliding with the quay wall while moving to dry dock at Greenock on 19th inst the following repairs have been effected—

Starboard Side—

D. Strake No. 4 & E. Strake No. 6 faired in place on landing edge & some rivets in the same lanching in the vicinity of the damage renewed—  
Two frames faired in place— 14 Rivets in frame brackets renewed—

Plans sent forward—

Midship Section as built (sent in advance)

Profile

Pillars & Girders

Upper Deck

Sternframe & Rudder

After Peak

Steering Engine

Center keelson angle butts

Lugs on turnbuckle rings

Releasing Tackles

Side framing in E. B. Space—

Painting Arrangements

Fore Peak Bulkhead

Bulkheads

Shell Expansion

Grates

Strengthening of Bottom Forward—

Midship Section (Original)

3 Forging reports—

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower

2nd "

3rd "

Anchor have forged heads—

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 22.8 ft., R.Q.D. — ft., Bridge 26.5 ft., Forecastle 28.8 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 steel pl.

Will be assigned on Official No. 112 Signal Letters

Is bottom of Vessel coated with cement if not give

particulars of composition Covered with cement & bituminous composition

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,	49	112	After peak tank,	26	130
Double bottom, if under Engines only,	✓		Deep tank, aft,	21	125
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓	
Double bottom, forward,	215	650	Other tanks, if fitted,	✓	
Total capacity of double bottom		762	(If necessary, furnish further information by sketch.)	✓	

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

Order for Special Survey No. 8946

Date 11.2.26

Dates of Surveys held while building

1926 Feb. 1. 4. 14. 18. 22. 25 Mar. 1. 4. 8. 9. 22. 26. 30 Apr. 1. 6. 7. 12. 19. 22. 30 May 4. 6. 11. 12. 13. 18  
20. 21. 24. 25. 27 June 1. 4. 8. 11. 15. 16. 18. 21. 23. 24. 30 July 5. 6. 8. 22 Aug 5. 17. 18. 24

Total No. of Visits 62