

Rpt. 1.

STEEL STEAMER ~~OF MOTORSHIP~~

Received at London Office 25 APR 1934

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*Date of completion of report *17th April 1934* Port of *Glasgow* No. *54392*
Survey held at *Glasgow* Date First Survey *21st Sept 1933* Last Survey *11th April 1934*On the *Single Screw Steamer "WAITAKI"*
State Type *Full Scantling type* State Type of Erections *Prop. Bridge & Fore*TONNAGE under 1823.16 CLASS *+ 100 A1* State if with freeboard *no* Built at *Linthouse, Glasgow*
TONNAGE Deck...)
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 270.0*
Breadth (greatest moulded) *B 42.5*
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 23.0*
1st Longitudinal Number (L x D) = *6210*
2nd Numeral L x (B + D) = *17685*
Framing Depth "d," at middle of length. See Sec. 3 (1d) *11.53*
Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.74*
Do. Long Bridge to top of keel *8.93*
Draught Moulded *20.23/4*
Launched *14th March 1934* Yard No. *538*
Builders *Alexander Stephen & Sons Ltd.*
Owners *Union S.S. Co. of New Zealand Ltd.*
Managers *-*
(Where necessary to be entered in Reg. Book.)
Residence *London*
Port of Registry *Dunedin*
If surveyed while building, afloat, or in dry dock *Yes*REGISTERED DIMENSIONS.
FEET.Length *270.5*
Breadth *42.7*
Depth *20.85*

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.
FRAMES, Spacing amidships	<i>24 1/2</i>		Bracket Floors, Frame	<i>✓</i>	
" " from 3/4 length to Collision bulkhead	<i>24 1/2</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>24</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships <i>35 1/2</i> <i>44</i>		
Frame Amidships, Angle <i>E</i> [.....	<i>7 3.40</i>		" " top Angles <i>single</i> <i>5 5.42</i>		
" " Extends up to	<i>U. 8th</i>		" " bottom Angles <i>single</i> <i>5 5.46</i>		
Reversed Frame Amidships, Angle	<i>-</i>		Side Girders, No. each side and thickness	<i>one</i> <i>34</i>	
" " Extends up to	<i>-</i>		Margin Plate depth (excl. of flange) and thickness	<i>27</i> <i>40</i>	
Depth of Framing Girder	<i>7</i>		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<i>3 3.37</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E</i> [.....	<i>7 3.40</i>		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	<i>5 5.37</i>	
" " Second 'tween Decks, Angle, <i>E</i> or <i>C</i>	<i>-</i>		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<i>Cont. Plate</i> <i>37</i>	
" " Third " " " "	<i>-</i>		" " Gussets, spacing and scantling forward 1/4 len. from stem	<i>do.</i>	
Framing in Peaks, Angle <i>E</i> [.....	<i>6 3.42</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>4-6</i> <i>37</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>3/4 @ 5 1/4</i>		INNER BOTTOM PLATING.		
State if Frame Joggled	<i>Yes</i>		Breadth and thickness of Middle Line Strake	<i>45 1/2</i> <i>40</i>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Stanchions & deep frames as appd. plan</i>		Thickness of remainder in Holds	<i>34</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>as per appd. 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>Yes</i>	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle <i>E</i> [.....	<i>6 3.33</i>	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle <i>E</i> [.....	<i>5 1/2 3.34</i>	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>C</i>			Spacing	<i>every frame</i>	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle <i>E</i> [.....	<i>7 3.31</i>	
" " Foundation Plate on Floors			Spacing	<i>every frame</i>	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, <i>E</i> or <i>C</i>	<i>✓</i>	
Side Keelsons, No. each side			Spacing	<i>✓</i>	
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, <i>E</i> or <i>C</i>	<i>✓</i>	
" " Angles			Spacing	<i>✓</i>	
DOUBLE BOTTOM.			Poop Deck, Angle, <i>E</i> or <i>C</i>	<i>6 3.32</i> <i>5 1/2 x 3 x 38</i>	
Solid Floors, thickness and spacing	<i>34 @ 24 1/2</i>		Spacing	<i>every frame</i>	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Bridge Deck, Angle, <i>E</i> or <i>C</i>	<i>5 1/2 3.31</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Spacing	<i>every frame</i>	
" " breadth and thickness at margin plate	<i>✓</i>		Forecastle Deck, Angle <i>E</i> [.....	<i>5 3.30</i>	
			Spacing	<i>every frame</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.
PILLARS, No. of Rows	<i>two</i>			Stringer Plate, breadth and thickness in way of Bridge	<i>47 1/2</i>	<i>34</i>	✓
„ in 'tween Decks, Size and Spacing.....	<i>widely spaced pillars</i>			Thickness of Plating abreast Deck openings in way of Wells		<i>30</i>	✓
„ „ „ „ „	<i>with deck girders</i>			Thickness of Plating abreast Deck openings in way of Bridge		<i>30</i>	✓
„ in Holds „ „	<i>as per appd plan</i>			Thickness of Plating within line of openings...		<i>30</i>	✓
„ „ „ „ „				If Sheathed, material and thickness	✓		
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....	✓			Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	✓			If Plated, state thickness.....	✓		
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	<i>47</i>	<i>52</i>	<i>44</i>	If Plated, state thickness	✓		
„ „ „ „ in way of Bridge	<i>47</i>	<i>34</i>		Poop Deck.			
„ Angle in Wells	<i>5</i>	<i>5</i>	<i>44</i>	Stringer Plate, breadth and thickness		<i>30</i>	✓
Thickness of Plating abreast Deck openings in way of Wells	<i>42</i>		<i>34</i>	Plating, Sheathing, material and thickness ...		<i>30</i>	✓
Thickness of Plating abreast Deck openings in way of Bridge	<i>34</i>	<i>30</i>		Bridge Deck.			
Thickness of Plating within line of openings...	<i>40</i>		<i>32</i>	Stringer Plate, breadth and thickness.....	<i>45</i>	<i>38</i>	✓
If Sheathed, material and thickness	✓			Plating, Sheathing, material and thickness		<i>32</i>	✓
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	<i>47 1/2</i>	<i>34</i>		Stringer Plate, breadth and thickness.....		<i>32</i>	✓
				Plating, Sheathing, material and thickness ...		<i>32</i>	✓

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		RIVETS.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.	STRAPPED OR LAPPED.	
	Inches.	Inches.	Inches.	Inches.			Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL	<i>45</i>	<i>59</i>	<i>55</i>	<i>59</i>		<i>Double</i>	<i>7/8</i>	<i>3 1/2</i>	<i>Butt welded Single V</i>	✓	✓
„ DBLG. (if any)	✓										
BOTTOM PLATING, No. of Strakes		<i>47</i>	<i>40</i>	<i>42</i>		<i>Double</i>	<i>3/4</i>	<i>3 1/4</i>	<i>treble</i>	<i>3/4</i>	<i>2 7/8</i>
BILGE PLATING, No. of Strakes		<i>47</i>	<i>40</i>	<i>44</i>		„	„	„	„	„	„
SIDE PLATING, No. of Strakes		<i>48</i>	<i>40</i>	<i>42</i>		„	„	„	„	„	„
UPPER DECK, Sheer-strake in Wells.....	<i>54</i>	<i>56</i>	<i>40</i>	<i>40</i>		„	<i>7/8</i>	<i>3 1/2</i>	„	<i>7/8</i>	<i>3 1/8</i>
UPPER DECK, Sheer-strake in Bridge ...		<i>47</i>				„	<i>3/4</i>	<i>3 1/4</i>	„	<i>3/4</i>	<i>2 7/8</i>
STRAKE BELOW Sheer-strake in Wells.....		<i>52</i>	<i>40</i>	<i>40</i>		„	„	„	„	<i>7/8</i>	<i>3 1/8</i>
STRAKE BELOW Sheer-strake in Bridge ...		<i>47</i>				„	„	„	„	<i>3/4</i>	<i>2 7/8</i>
POOP SIDE PLATING				<i>33</i>		<i>Single</i>	„	<i>3</i>	<i>Single</i>	„	„
BRIDGE SIDE PLATING ...		<i>45</i>				„	„	<i>3 1/4</i>	<i>treble</i>	„	„
FORECASTLE SIDE PLATING			<i>35</i>			„	„	<i>3</i>	<i>single</i>	„	„

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<i>Four</i>
Extending to Upper Deck (Sec. 3 c)	<i>Four</i>
„ Deck next below	✓
As per Rule	<i>Four</i>

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				<i>Flat plate</i>
STEM	<i> Rolled steel bar</i>			<i>8 x 2 1/8</i>
STERN FRAME { Propeller Post	<i>step forging</i>	<i>8 1/2 x 5 1/4</i>	<i>W. Somers Ltd.</i>	
{ Rudder „	<i>Fairing fin anglt. as per approved plan</i>			
RUDDER—A x D.				<i>234.6</i>
Speed of Vessel				<i>11 knots</i>
RUDDER mainpiece at head	<i>stock steel forging</i>	<i>7 3/4</i>	<i>W. Somers Ltd.</i>	
„ „ heel	<i>welded rudder</i>			
„ „ how constructed	<i>as per appd plan constructed by builders</i>			
„ „ double or single plating		<i>40</i>		
„ „ coupling, vertical or horizontal				<i>horizontal</i>

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	<i>76.71</i>	<i>28-27</i>	<i>6 x 3 x 30L welded to plate</i>	<i>30</i>	✓
„ „ Second „		✓			
„ „ Third „		✓			
„ „ Holds	<i>47-29</i>	<i>6 x 3 x 34L welded to plate</i>	<i>30</i>		✓
COLLISION „ (in Hold)	<i>50-34</i>	<i>6 x 3 x 34.8A</i>	<i>22 1/2 x semi-bon bon</i>		✓
AFTER PEAK „ „	<i>43-30</i>	<i>8 x 3 x 38.8A</i>	<i>24</i>	<i>recess top</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, Colvilles Ltd, Lanarkshire Steel Co.</i>
	Has the Steel been tested as required by the Rules? <i>Yes</i>

heavy out

EQUIPMENT No 18643										LETTER <i>S</i>	ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53, as approved.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.				
93352	1st Bower ...	37	3	26	Stackless	34	10	0	0	38-3-0	Byers Stackless	Sam Taylor & Sons (Brisely Hill)	LPHN Dec 21 st 1933	
93245	2nd " ...	37	0	13	"	33	16	3	14	38-3-0	"	"	LPHN Oct 31 st 1933	
93258	3rd " ...	37	0	13	"	33	16	3	14	32-2-0	"	"	do	
	Collective weight.	112	0	24	Stackless					110-0-0				
93399	Stream	10	0	22	2	2	24	12	4	1	14	Rodgers Steel Stack	LPHN Jan 31 st 1934	

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.
98481	240	1 9/16	6 1/2	86	3	19	3	23	240	1 9/16	Stackless Tayco	S Taylor & Co (Briarley Office) Ltd.	LPHN Jan 31 st 1934 H. Green	SW TOWLINE...	90	4	33.2	90	4
✓														SW HAWSERS & WARPS	2@90	2 1/2	13.2	2@90	2 1/2
✓														"	2@90	2 1/4	10.8	2@90	2 1/4
		Cir.								Cir.									
Stream Chain - Steel Wire	75	4 1/4		36	4				75	4 1/4		R. Hood & Haggie			-				

Steering Gear, Steam

Brown Bros.

Steering Gear, Hand

Relieving tackle led to winch

Boats

two lifeboats

Steering Chains, Size and Test

none

Windlass

steam Clarke Chapman

Ceiling in Holds, thickness and material

2 1/2" W.P. doubled in way of hatches by 2" oak

Cargo Battens, thickness, material and spacing

6 x 2" W.P. 6" apart

Cargo Hatchways.-(Upper Deck)

Steel plates & angles

Thickness of Hatches

3" spruce

Size of No. 1 Hatchway (Forward)

14-3 1/2 x 15

No. 2

22-5 1/2 x 15

No. 3

11-5 x 15

No. 4

16-4 x 15

No. 5

14-3 1/2 x 15

No. 6

✓

Number of Shifting Beams and/or Fore and Afters

No 1, two, No 2, three, No 3, one, No 3, two, No 4, two.

ALEXANDER STEPHEN & SONS, LIMITED

Builder's Signature

Shirley Blash

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel

Yes

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo

no

The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The materials & workmanship are good. The vessel has been built in accordance with the approved plans, the Secretary's letters of various dates & in conformity with the Rules for the class contemplated. The vessel is constructed to carry oil fuel in Nos. 1, 2, 3 and 6 double bottom tanks, and in deep oil fuel bunkers, p. & S., in Boiler room & aft end of fore hold. The tanks, decks, bulkheads, tunnel & W.T. doors have been tested in accordance with the Rules, & the requirements of Sect. 20 of the Rules have been complied with where applicable. The freeboard has been verified & the freeboard markings cut in on vessel's sides.

Attention is drawn to the fact that the equipment letter "S" does not indicate correctly the size of cables which are Tayco type.

The amount of Entry Fee

£ 6 : 0 : 0

Fees applied for,

24 APR 1934

Special Survey Fee

£ 185 : 12 : 0

Received by me,

8.6 3/4

Freeboard

£ 12 : 0 : 0

Travelling Expenses, if any

I am of opinion the Vessel should be Classed

+ 100 A1

Fitted for oil fuel

4,34 F.P. above 150° F.

State whether the Vessel has been built under Special Survey

yes

Signature

A.W. Paterson

Surveyor to Lloyd's Register of Shipping.

H & M

Certificate to be sent to

GLASGOW

Date of issue

2/7/34

Committee's Minute

GLASGOW 24 APR 1934

TUE. 8 MAY 1934

Character assigned

+ 100 A1

H. 34.

Lloyd's A.C.P.

+ L.M.C. H. 34. F.D.

Glec. Light.

Fitted for Oil Fuel 4,34 F.P. above 150° F.

Rudder Electrically welded

See J.E. Tarooma

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

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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.)

List of approved plans forwarded herewith:—

(Midship Section as built sent in advance)

Midship section, profile & decks, stem frame & rudder, amended plan of rudder showing plug welding ang²t, panting ang⁵t, strengthening of bottom⁶ for, after peak framing, peak bulkheads, machinery space bulkheads, pillars girders & hatches fore end, pillars girders & hatches aft end, tunnel plan, engine & boiler casings, welding of heads & heels of pillars, E.W. Keel, oil fuel bunkers, strong beams & web frame Fr. 61, riveting scheme, pumping plan.

Three forgings reports.

NOTE:—

The Keel butts, engine & boiler room bulkheads, oil fuel bunkers and rudders have been electrically welded and the requirements of the Rules for electric arc welding have been complied with.

A.W.S.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	25-2-17	— A.B. —	6351	— 26 th Dec. 1930
	2nd "	25-3-9	— A.B. —	6349	— 26 th Dec. 1930
	3rd "	25-2-11	— A.B. —	6335	— 26 th Dec. 1930

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 26.8 ft., R.Q.D. ✓ ft., Bridge 94.5 ft., Forecastle 24.7 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 dks (stl.).

Official No. ✓ : Signal Letters Is bottom of Vessel coated with cement pt. cum. if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.		Water Capacity.	Where Fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	69.4	102.4	Fore peak tank,			29.8	
Double bottom, under Engines and Boilers,	61.25	182.9	After peak tank,			58.0	
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓			
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓			
Double bottom, forward,	91.9	170.8	Other tanks, if fitted,	✓			
Total length DB 223ft.		Total capacity of double bottom 456.1	(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. <u>6170</u>	Dates of Surveys held while building	19 <u>33</u> Sep: 21. 26. 27. 28. 29 Oct: 2. 3. 4. 6. 10. 11. 12. 16. 17. 18. 23. 24. 27. 30
Date <u>21. 8. 33</u>		Nov: 1. 3. 7. 9. 10. 13. 15. 17. 21. 23. 27. 30 Dec: 4. 7. 11. 14. 19. 21. 26. 27 (19 <u>34</u>) Jan
		5. 8. 9. 10. 15. 17. 19. 22. 25. 29. 30 Feb: 2. 7. 9. 12. 13. 15. 16. 19. 21. 23. 26 Mar
		1. 5. 7. 13. 14. 16. 19. 26. 28 Apr: 3. 4. 10. 11
		Total No. of Visits <u>74</u>