

Awning or Shelter Deck, or Pt. Awning Deck.

STEEL STEAMER.

No. 18347

-4 MAR 1925

State if Report is also sent on the Machinery of the Vessel ☒ YES.

Port of GREENOCK Date of completion of Report 12. 2. 25 Received at London Office

Survey held at PORT GLASGOW & GLASGOW Date, First Survey 15th October, 1920 Last Survey 12th February, 1915

On the (State if Single, Twin, or Triple Screw) SINGLE SCREW TURBINE "TONGARIRO" Rig FORE & AFT SCHOONER

TONNAGE under 6148.23

Tonnage Deck... 2030.42

Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. 8178.65

Total under Upper Dk. 98.42

Do. of POOP SIDE HOUSES 219.61

Do. of R. Qr. Dk. 12.99

Do. of Bridge House 218.26

Do. of Forecastle

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of Engine Room 8728.53

Gross Tonnage 316.67

Less Crew Space

Less above Crown of Engine Room

TONNAGE FOR FEES... 2793.13

Less Engine Room

Less Navigation Spaces 117.40

CLASS 100A1 SHELTER D^K WITH FREE^D **FEET.**

Breadth (greatest moulded) 62.5

Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 37.75

Deduct height of 'tween deck when this does not exceed 8ft. 8.0

Transverse Number 92.25

Length on deck from fore part of stem to after part of sternpost 460.71

Longitudinal Number 42500

Depth "d" at middle of length. See Secs. 2 & 13... 12.18

Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 10.05

Long BRIDGE Upper Deck at side to top of keel

Master ✓

Year of Appointment ✓

Built at PORT - GLASGOW

When built 1925 **Launched** 13th NOVEMBER 1924

By whom built MESSRS WILLIAM HAMILTON & COY L^D

Owners THE NEW ZEALAND SHIPPING COMPANY LIMITED

Managers ✓

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

Residence LONDON.

Port belonging to PLYMOUTH.

Register Tonnage 5501.33 **Destined Voyage** NEW ZEALAND. **Surveyed while Building, Afloat, & in Dry Dock** YES.

LENGTH on 460 **FEET.** **INS.** **BREADTH** 62 **FEET.** **INS.** **DEPTH, ACTUAL** 37 **FEET.** **INS.** **Top of Floors to top of Awning or Shelter Dk. Beams** 27 **FEET.** **INS.** **No. of Decks with flat laid** 3

Deck as per Rule 460 **INS.** **Moulded** 62 **INS.** **Do.** 27 **INS.** **Upper Deck Beams** 27 **INS.** **No. of Tiers of Beams** 3

Dimensions of Ship per Register, Length 460.5 breadth 62.75 depth 27.2 **Upper Deck.** Moulded depth, ft. 29 ins. 9 **To Upper Dk.** Round up of Uppermost Dk. Beam, Actual 15 1/2 ins.

FRAMING.				PILLARS.			
NAME, Angles, or Bars, amidships	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	PILLARS, in 'tween Deck, size and spacing	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.
AME, Angles, or Bars, amidships	10 1/2	3 1/2	58	" Hold			
Do. in peaks	8	3 1/2	46	" Quarter, 'tween Dks.,			
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	44	" in Hold			
" at intermdt. Blks.							
ing of Frames from centre to centre amidships	27 1/2		27 1/2				
" length to collision bulkhead	27		27				
" of Frames from centre to centre in peaks	24		24				
VERSED FRAME, Angles	BULB ANGLE FRAMING						
Do. in way of Double bottoms at Solid Floors	3 1/2	3 1/2	44				
" at intermdt. Blks.							
AMING, depth of girder							
DOORS, depth and thickness of Floor Plate at mid line for 1 length amidships							
" in way of Engine and Boiler spaces							
" thickness at the ends of vessel			40				
" depth at 1/2 the half bdth. as per Rule							
" height extended at the Bilges							
DOORS, in Cell Double Bottoms			42				
" state if flanged (top and bottom)			NOT FLANGED				
" spacing of Solid			ON EVERY FRAME				
NTRE GIRDER, in Dbl. bottom, dpth. & thickness	46		56				
" Angles, Top	5	5	60				
" Bottom	5	5	60				
" to Floors	5	5	60				
" Brackets at intermdt. frmg. width & thickness							
DE GIRDERS, number and thickness	3	2	42				
" state if flanged (top & bottom)			NOT FLANGED				
" Angles	3 1/2	3 1/2	44				
MARGIN PLATE, depth (exclusive of flange) and thickness	36		50				
" Angles to outside plating	4	4	50				
" to floors	6	6	50				
" Brackets at intermdt. frmg. width & thickness							
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake	51		54				
" thickness in Engine and Boiler space	ES 54	BS 75	ES 54				
" Remainder in Holds			40				
BEAMS, Awning or Shlt ^r Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	9	3 1/2	48				
" Spacing			ON EVERY FRAME				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	9	3 1/2	50				
" Spacing			ON EVERY FRAME				
BEAMS, Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	10	3 1/2	58				
" Angles on upper edge							
" Spacing			ON EVERY FRAME				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel							
" Angles on upper edge							
" Spacing			ON EVERY FRAME				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	9	3 1/2	48				
" Angles on upper edge							
" Spacing			ON EVERY FRAME				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	9	3 1/2	48				
" Angles on upper edge							
" Spacing			ON EVERY FRAME				

[illegible]

Survey

"TONC

& Co.

compl

and

Regist

~~THE V~~ ~~RECOM~~

that

Shelt

being

This Certificate is
While the Commitment
neither the Committee
Certificate issued by the State
Judgment, default, or

B.)—3m, 4, 2l. T.

EQUIPMENT No. 48335														LETTER dt		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQ. BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
15254	1st Bower	82	0	0	STOCKLESS			59	10	0	0	81	1	0	HALLS STOCKLESS	HAUNTFORD PHILLIPS LTD	CARDIFF 27.11.23 A. JONES.
15255	2nd "	82	0	0	"			59	10	0	0	81	1	0	"	"	CARDIFF 27.11.23 A. JONES.
15022	3rd "	69	1	0	"			53	7	2	0	69	2	0	"	NOT STATED.	CARDIFF 6.7.23 A. JONES.
	Collective weight	233	1	0								232	0	0			
15015	Stream	23	1	0	6	1	0	23	10	0	0	23	2	0	ORDINARY.	NOT STATED.	CARDIFF 5.7.23 A. JONES.
	Kedge																

1/ Patent state Name of Patentee.

1/ Stock less, state Mechanical Tests.

Particulars of Drop Test of Cast Steel Anchors, viz:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	WEIGHT HEAD & PIN			SURVEYOR'S INITIALS.			CERTIFICATE NO			DATE OF TEST.		
	1st Bower			L.R.			5623			26.10.22.		
	2nd "			L.R.			5624			26.10.22.		
	3rd "			L.R.			5614			26.9.22.		

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length and size per Table 31.	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 31.		Length and size per Table 31.	Description.	Makers of Cables.	Where and when tested and Superintendent.
	Fathoms.	Ins.		Supplied.	Per Rule.						Fathoms.	Ins.		Fathoms.	Ins.				
26879	300	2 1/2	112.5	157.5	968-2-14	940-0-0	300	2 1/2	STUD LINK	HAUNTFORD PHILLIPS LTD	130	7	113	130	6				
	120	6	114				120	5 1/4	GAL S. HICK.										

Boats 4 LIFE BOATS. Steering Gear, Steam BY HASTIE & COY. GRK. Steering Gear, Hand RELIEVING TACKLE FITTED.

Pumps, Number TWO; 1 TO FORE PEAK FLAT, AND 1 TO CRUISER STERN. Diameter of Barrel 4" State whether they are in efficient working order YES.

Windlass is STEAM, BY CLARK CHAPMAN & COY. Capstan

Engine Room Skylights.—How constructed? STEEL PLATES AND ANGLES. What arrangements for deadlights in bad weather? BULLSEYES IN STEEL FLAPS.

Coal Bunker Openings.—How constructed? STEEL PLATES & ANGLES. How are lids secured? OIL TIGHT HATCH COVERS Height above deck? 30"

Number of **Scuppers**, and numbers and dimensions of **Freeing Ports**, &c. 6-3" PIPE SCUPPERS P & S; FREEING PORTS (AFT ONLY) 2 x 2'-6" x 18" P & S.

Ceiling in Holds, thickness and material No. 1, 2, 3 & 4 HOLDS INSULATED. Cargo Battens, thickness and material No. 1, 2, 3, 4 & 5 TWEEN DECKS INSULATED.

Cargo Hatchways.—How formed? STEEL PLATES AND ANGLES. Hatches, If strong and efficient? YES. 2 1/2" SOLID

State size No. 1 Hatch (Forward) 24'-9" x 20'-0". No. 2 Hatch 32'-1" x 20'-0". No. 3 Hatch 27'-6" x 20'-0". No. 4 Hatch 27'-6" x 20'-0".

Number of **Web Plates**, **Shifting Beams** and **Fore and Afters** to each Hatch 3 WEBS IN HATCHWAYS NOS 1, 3, 4 & 5.

4 WEBS IN NO. 2 HATCHWAY; 1 WEB IN NO. 6 HATCHWAY. No. of Breasthooks FOUR & DEEP FLOORS. No. of Crutches DEEP FLOORS.

Bulwarks, height above deck and description 3'-6" x 30" WITH 6" x 38 B.P. STAYS Main Rail and Stays, material and size B.A. 6 x 3 1/2 x 38

The foregoing is a correct description. J. WILLIAM HAMILTON & CO., LIMITED Surveyor's Signature Robert Dunsmuir.

Builder's Signature (here only) *Johnston* Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) See Log E 30-8-16; E 7-10-16

11-2-17; 11-6-3-17; 11-7-10-19; E 24-9-20; E 27-7-22; E 3-8-22; E 4-7-23; See Log 18-9-19; 5-11-19; 19-11-19; 25-11-19; 2-2-20; 20-2-20; 25-3-20; 16-4-20; 18-6-20; 2-8-20; 20-8-20; 1-9-20; 2-12-20

Workmanship. Are the butts of plating planed or otherwise fitted? PLANED AS FAR AS 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 faying 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.) Workmanship good & materials used throughout in vessel's construction also good.

The vessel has been built in accordance with the Approved Plans, the Secretary's letters of above dates, and in general conformity with the Society's Rules for the class contemplated.

The Approved Plans, together with reports on forgings & castings are forwarded herewith, also plans of Midship Section; Profile decks;

Double bottom tanks No. 1, 2, 3, 4 & 5 have been made for carrying oil fuel for burning purposes & the requirements of Sect 49 of the Rules fully complied with.

The Oil Fuel Bunkers have been built in accordance with the Approved Plans, & the requirements of Section 49 of the Rules fully complied with.

Dewater Pump dispensed with. Copy of owner's letter attached.

Peak Tanks, Double Bottoms & Oil fuel bunkers tested to Rule requirements & found satisfactory. Decks, Tunnel & W.T. Bk. are tested & found satisfactory.

This is a sister vessel to P.S. "TURAKINA" 1. See Rep No 18114.

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. See from "Turakina"

The amount of Entry Fee ... £ 11 : 0 : 0 Fees applied for, 5th Feb 1926

Special Survey Fee ... £ 4 18 : 4 : 6 Received by me, 6th Feb 1925

Travelling Expenses, if any £ 14 : 0 : 0

State whether the Vessel has been built under Special Survey YES.

I am of opinion this Vessel should be Classed 100A1 SHELTER DECK WITH FREEBOARD

With, or without Freeboard, as condition of Class WITH

Signature: Robert Dunsmuir, Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3-MAR 1925

Character assigned 100A1

Shelter DK. with fbd

2.25 Lloyd's acc.

+ LMC 2.25 72.

Fitted for oil fuel 2.25 F.P. above 150° F

002543-002549-0012 2 1/2

GENERAL REMARKS—(continued).

List of Plans.

Midship Section
 Profile & Decks.
 Midship Section, Amended scantlings for Shell & Tank Top.
 Profile & Decks for deck thicknesses only.
 Fore & after Peaks
 Sternframe & Reader
 " " Amended
 Cruiser Stern
 Shaft Tunnel.
 Main Injection
 Hatch Plan.
 Pillars & Girders.
 Quadrant & Siller
 Pumping & Piping.
 Portable Pillars in Boiler Room.
 Bridge extension.
 Arrangement of Oil Bunkers.
 Main Oil Bunkers
 Lower Deck Oil Bunkers.
 Slab Hatches
 Large Aft.
 Beam Knee Riveting
 Strengthening forward.
 Stringer in C-B Space
 Midship Section (as built)
 Profile & Decks. " "
 Cruiser Stern " "
 Pumping Arrangement " "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge DECK AND Forecastle 423.75 ft.
 (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

BRIDGE DECK JOINED TO FORECASTLE.

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 (STEEL) AND SHELTER DECK (STEEL) /

Official No. 146002; Signal Letters; State if Machinery is fitted aft NO

How are the surfaces preserved from oxidation? Inside PART CEMENT AND PAINT. / Outside BY PAINT. /

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

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	98.5	281.98	Fore peak tank,		121
Double bottom, under Engines and Boilers,	72.3	350.17	After peak tank,		42
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	207.3	797.14	Other tanks, if fitted,		
	Total capacity of double bottom	1429.24	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. 378.1

State whether the above have been tested as required by the Rules.

Order for Special Survey No. 3013

Date 26.9.19.

No. 323 in builder's yard.

DATES OF SURVEYS held while building

(1920) Oct 15-19-20-29. Nov 15-17-23-25. Dec 16 (1921) Feb 9. (1923) Feb 7. Mar 1. 13-15-31. Apr 3-11. May 1. 7-11-14-16-18-21.
 June 1-4-8-13-19-21. Oct 1-11-16-18-25-30. Nov 5-13-19-23-27-29. Dec 6-11-24 (1924) Jan 7-16-23-28. Feb 22. Mar 17-25. Apr 9-11.
 17-24. May 16-9-13-21-22-28-30. June 3-6-12-18-25. July 21-22-25. Aug. 5-11-13-21-25-26-28. Sept 17-3-9-12-16-19-22-26. Oct 1-6-9-16-21-23-24-27-28-29-31. Nov 4-5-6-8-10-12-13. Dec 15. (1925) Jan 22. Feb 12.

Total No. of Visits 109

Surveyor's Signature Robert Dunsmit.

pt. 4a.

Date of
 No. in
 Reg. Bo

Master
 Engines
 Boilers
 Register
 Shaft H

URBI
 Diameter of
 Diameter of
 Diameter of
 Width of F
 No. of Scre
 No. of Blac
 Thickness a

PARTIC

1ST EXPAN
 2ND
 3RD
 4TH
 5TH
 6TH
 7TH
 8TH

No. and si
 No. and si
 No. and si

No. of Bilg
 Are all the
 Are all con
 Are they fi
 Are they re
 What pipes
 Are all Pip
 Are the Bi
 Is the Scre

COILEE
 Total He
 Working

TONGARIRO

Lloyd's Register
 Foundation