

STEEL STEAMER or MOTORSHIP.

8 MAR 1928

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YES

Date of completion of report

6th March 1928

Port of

No. 38753

Survey held at Goole

Date First Survey 6 May 1927

Last Survey HULL

r. March 1928

On the (State if Machinery fitted Aft and

Steel Twin Screw Schooner "Pukeko"

State Type (Full Scantling, Complete Superstructure

Full Scantling

State Type of Erections R. & B. Deck, B. Deck, etc.

TONNAGE under Tonnage Deck... 501.28

CLASS 100 A1State if with freeboard as condition of Class noBuilt at Goole

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) 180-0Launched Dec. 12th 1927 Yard No. 278

Total 501.28

Breadth (greatest moulded) B 29-3Builders Goole Shipbuilding & Repairing Co. (1924) Ltd.

Gross Tonnage 735.78

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 14-0 to 17-6Owners Messrs. Richardson & Co. Ltd.

Register Tonnage 322.48

1st Longitudinal Number (L x D) 2520

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

2nd Numeral L x (B + D) 7785Residence Port Aruruni

REGISTERED DIMENSIONS. FEET.

Length 180.0

Framing Depth "d," at middle of length. See Sec. 3 (1d) 11.5

Breadth 29.4

Proportions—Depth to Length—Uppermost continuous deck to top of keel Upper Dk. 12.85Port of Registry Hapier

Depth 11.85

Do. Long Bridge to top of keel Rd. 10.28

If surveyed while building, afloat, or in dry dock

Draught Moulded 13-2 1/4

While building, afloat and in dry dock.

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.
S. Spacing amidships	22		Bracket Floors, Frame	✓	
" from 1/2 length to Collision bulkhead.....	22		" " Reversed Frame.....	✓	
" in peaks.....	22		" " Vertical Struts.....	✓	
FRAMING.			Centre Girder, depth and thickness amidships	30	38
" Amidships, Angle, [or [.....	BR 7 3 40		" " top Angles.....	Single 3	3 34
" Extends up to.....	BR 6 3 40		" " bottom Angles.....	Single 3	3 38
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	one	28
" Extends up to.....	✓		Margin Plate depth (excl. of flange) and thickness.....	21	34
Thickness of Framing Girder	5 1/2		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....	3	3 28
Spaces in Uppermost Continuous 'tween Decks, Angle, [or [.....	✓		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem.....	5	5 35
" Second 'tween Decks, Angle, [or [.....	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	✓	
" Third " " " ".....	✓		" " Gussets, spacing and scantling forward 1/4 len. from stem.....	✓	
Spacing in Peaks, Angle	5 3 36		Tank Side Brackets, height above base line at toe of Frame and thickness	42	32
Number and Spacing of Rivets through Frame and Shell Plating amidships	3/4 5 1/4		INNER BOTTOM PLATING.		
Is Frame Joggled	Yes		Breadth and thickness of Middle Line Strake...	40	34
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	6 3 40 BA. Spacing Strips		Thickness of remainder in Holds.....	30	
STRENGTHENING OF BOTTOM FOR HARD. State Particulars	5 5 35		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?.....	Yes	
DOUBLE BOTTOM, in boiler room			BEAMS.		
" Depth and thickness at mid-line in Holds.....	19 x 40		Uppermost Continuous Deck, amidships	6	3 32
" Height of Brackets at side above base line at toe of frame.....	✓		" in Wells, Angle, [or [.....	6	3 32
Idle Line Keelson, on Floors, Angles, [or [.....	10 32 50		" in way of Bridge, Angle, [or [.....	6	3 32
" " Through Plate or Intercoastal Plate.....	22 1/2 x 48		" Spacing.....	22	
" " Foundation Plate on Floors.....	✓		Second Deck, amidships, Angle, [or [.....	6	3 32
" " Flat Plate Keel Angles.....	32 32 42		" Spacing.....	4	3 30
Idle Keelsons, No. each side	One		Third Deck, amidships, Angle, [or [.....	✓	
" thickness of Intercoastal Plate.....	7 1/2 3 48 BA.		" Spacing.....	✓	
" Angles.....	3 3 38		Fourth Deck, amidships, Angle, [or [.....	✓	
DOUBLE BOTTOM.			" Spacing.....	✓	
Idle Floors, thickness and spacing	28 22		Poop Deck, Angle, [or [.....	✓	
" Are Frame and Reversed Frame joggled?.....	Yes		" Spacing.....	✓	
Bracket Floors, breadth and thickness at middle line	None		Bridge Deck, Angle, [or [.....	5	3 30
" breadth and thickness at margin plate.....	✓		" Spacing.....	4	3 30
			Forecastle Deck, Angle, [or [.....	5	3 34
			" Spacing.....	22	

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>19"x5"</i>		<i>biueh pillar in fore hold</i>							
" in 'tween Decks, Size and Spacing.....		<i>8 1/2 x 3 1/2 x 1/2 B.A.</i>		<i>brackets in lieu of minor</i>							
" " " " " "		<i>2 5/8 " 15</i>		<i>such arrangement.</i>							
" in Holds " " " "											
" " " " " "											
Centre Line Bulkhead.											
Stiffeners and Spacing.....		✓									
Plating, thickness of		✓									
STRINGERS AND DECKS.											
Uppermost Continuous Deck.											
Stringer Plate, breadth and thickness in Wells		<i>39</i>		<i>40</i>							
" " " " in way of Bridge				<i>60</i>							
" Angle in Wells		<i>3 1/2</i>		<i>3 1/2</i>		<i>40</i>					
<i>at Bridge end</i>		<i>5</i>		<i>5</i>		<i>60</i>					
Thickness of Plating abreast Deck openings in way of Wells		✓		<i>34</i>							
Thickness of Plating abreast Deck openings in way of Bridge		✓									
Thickness of Plating within line of openings...		✓		<i>30</i>							
If Sheathed, material and thickness		✓									
R.Q. Second Deck.											
Stringer Plate, breadth and thickness in Wells...		<i>32</i>		<i>38</i>							
Stringer Plate, breadth and thickness in way of Bridge											
Thickness of Plating abreast Deck openings in way of Wells											
Thickness of Plating abreast Deck openings in way of Bridge											
Thickness of Plating within line of openings...											
If Sheathed, material and thickness											
Third Deck.											
Stringer Plate, breadth and thickness.....											
If Plated, state thickness.....											
Fourth Deck.											
Stringer Plate, breadth and thickness.....											
If Plated, state thickness											
Poop Deck.											
Stringer Plate, breadth and thickness											
Plating, Sheathing, material and thickness ...											
Bridge Deck.											
Stringer Plate, breadth and thickness.....								<i>34</i>		✓	
Plating, Sheathing, material and thickness ...								<i>30</i>		✓	
Forecastle Deck.											
Stringer Plate, breadth and thickness								<i>30</i>		✓	
Plating, Sheathing, material and thickness ...								<i>26</i>		<i>5x3 P.P.</i> ✓	

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	40	✓ 56	52	52	✓	double	3/4	3 1/7	three	7/8	3 1/8	Strapped	
„ DBLG. (if any)			✓										
BOTTOM PLATING, No. of Strakes 2		✓ 36	36	36	✓	double	3/4	“	two	3/4	2 5/8	lapped	
BILGE PLATING, No. of Strakes		36	34	34	✓	double	3/4	“	two	3/4	“	“	
SIDE PLATING, No. of Strakes		36	32	32	✓	double	3/4	“	two	3/4	“	“	
UPPER DECK, Sheer-strake in Wells	44	45	36	34	✓	double at break	3/4	“	three to two	7/8 + 3/4	“	“	
UPPER DECK, Sheer-strake in Bridge ...	“	{ 40 63	at break		✓								
STRAKE BELOW Sheer-strake in Wells		43	43	34	✓	single	3/4	“	three to two	7/8 + 3/4	“	“	
STRAKE BELOW Sheer-strake in Bridge ...		43			✓	single	3/4	“	two	3/4	“	“	
R. Q. SK Sheer		40		34	✓	single	3/4	“	three to two	7/8 + 3/4	“	“	
POOP SIDE PLATING	44	60	at break		✓	double at break	7/8	“	two	3/4	“	“	
BRIDGE SIDE PLATING ...		40			✓	single	3/4	“	three	3/4	“	“	
FOREC'TLE SIDE PLATING		26			✓	single	3/4	“	one	3/4	“	“	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		4				
,, Deck next below		✓				
As per Rule		4				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					✓	
,, Second ,,					✓	
,, Third 47 ft.		✓	6x3x38 0A	✓		
,, Holds 27 ft.		✓	40-28 4x3x30	30		
,, (in Hold 90 ft.)		✓	42-28 4x3x32	30		
COLLISION			6x3x36 0A			
AFTER PEAK			34-30 4x3x30	24		
,, 6x8 ft.		✓	36-30 4x3x30	24		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat Plate			
STEM	Forging	6 1/4 x 1 1/2	Industrial Steels Ltd.	
STERN FRAME	Propeller Post			
Rudder	Forging	6 1/4 x 2 1/2	R.W. Thompson	
RUDDER—A x D		91.2		
Speed of Vessel		Under 10 knots		
RUDDER mainpiece at head		5 1/4 dia.	R.W. Thompson	
" " heel		4 " "		
" how constructed		Forged steel		
" double or single plate		Single plate		
" coupling, vertical or horizontal		horizontal		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth process*
Bolckow Vaughan & Co. Ltd. Cargo Fleet Iron Co. Ltd. Nottingham I & S. Works;
Stunningrove I. Works.
 Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 83												LETTER J	ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.					
30018	1st Bower	16	3	0	✓			18	0	2	14	16 3/4	Byers improved Litch.	Not stated	Id. 17/5/27: Butler	
30160	2nd "	16	3	0	✓			18	0	2	14	16 3/4	"	"	Id. 5/7/27: Butler	
29767	3rd "	14	2	0	✓			16	1	1	0		"	"	Id. 14/2/27: Butler	
	Collective weight.	48	0	0								33 1/2	18 cwt.			
43012	Stream	4	3	9	1	1	11	7	5	0	0	4 3/4	Gray Forged Mot. S.	"	C.H. 15/8/27: Paul	

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.		Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Sta- 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.
82988	210	1 1/4	28.12	42.12	168.1	2		168	210	1 1/4	Stud	Not Stated	Id. 18/8/27: Green	TOWLINE...	75	2 3/4	14.8	75	2 3/4
														HAWSERS & WARPS	90	2 1/4	10.5	90	2 1/4
														"	90	1 3/4	5.9	90	1 3/4
Iron Stream Chain or Steel Wire	60	3	17.6						60	3				"					

Steering Gear, Steam *efficient* Steering Gear, Hand *efficient*
Boats *two* Steering Chains, Size and Test *7/8 dia. 9.2.2.0* Windlass *efficient*
Ceiling in Holds, thickness and material *2" W.W. on 'ground'* Cargo Battens, thickness, material and spacing *6x2 W.P. Spaced 8" apart*
Cargo Hatchways, (Upper Deck) *Steel plates and angles* Thickness of Hatches *3" W.P.*
Size of No. 1 Hatchway (Forward) *14'8" x 14'0"* No. 2 *22' x 14'* No. 3 *22' x 14'* No. 4 *✓* No. 5 *✓* No. 6 *✓*
Number of Shifting Beams *2 in nos 1 & 2; 3 in nos 3 & 4 hatchways.*

FOR THE GOOLE SHIPBUILDING & REPAIRING CO. (1927) LTD.

Builder's Signature

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel *No* (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.

This vessel has been built in accordance with the approved plans and instructions and in conformity with the Rules for the class contemplated.

The materials and workmanship are satisfactory.

A freeboard has been assigned and the marks on the vessel's sides have been verified and cut in. The double bottom tanks and peak tanks have been tested with water pressure in accordance with Rule requirements and found satisfactory. The weather decks, bulkheads, wat. doors and hand pumps have been satisfactorily tested.

The vessel is to be registered in New Zealand.

The amount of Entry Fee £ 4 : 0 : 0 Fees applied for, *7 March 1928*
Special Survey Fee.... £ 73 : 12 : 0 Received by me, *16.3.28*
Freeboard 3 : 13 : 4
Travelling Expenses, if any £ 9 : 11 : 9

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

State whether the Vessel has been built under Special Survey *Yes*

Signature

Malcolm
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Hull* Date of issue *16/3/28*

Committee's Minute

FRI. 9 MAR 1928

Character assigned

+ 100A1

Lloyd's A & C.P.
+ L.M.C. 9.28
CI

Write this
refers
nwc

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Lloyd's Register
Foundation

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.)

The following plans etc. are enclosed herewith:—

Midship Section : Forgings : Rudder (amended) : Flat plate Keel + centre girder
Profile of Decks : Sternpost (amended) : Propeller bossing :
Propeller bossing (amended) showing alteration to No. 1. W.T. Bhd.
W.T. Bulkheads : Alteration to No. 1. W.T. Bhd.
Detail of Strengthening Forward : Amended arrgt. of stiffening at break
Engine Seating : Pumping Plan : Shafts in way of bossing.
Positions of Scuppers + Inlet port doors (amended)
Sketch of strong beam in Engine Room :
Forging reports (6); Steel Invoices.

Hawsers: The test figures given overleaf are from certificates supplied by the maker (cert. 3) being the stress applied without breaking.

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

1st Bower 9.1.11; K.H.; 4005; 16/6/26.
2nd „ 9.2.21; K.H.; 14490; 15/3/27.
3rd „ 8.3.1; K.H.; 3999; 16/6/26.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 50.0 ft., Bridge 57.3 ft., Forecastle 23.7 (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) 1 Deck (Std).

Official No. ; Signal Letters

Is bottom of Vessel coated with cement yes if not give particulars of composition

excepting in boiler room which has bituminous enamel (app. per Hon. Letter 17 6/12/27)

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, ✓	27.5	40	Fore peak tank,	14.5	20
Double bottom, under Engines and Boilers, ✓	✓	✓	After peak tank,	11.5	4.6
Double bottom, if under Engines only, (feed) ✓	16.5	30	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only, ✓	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	79	100	Other tanks, if fitted,	✓	✓
Total capacity of double bottom (170)			(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. 2877

Date 31 March 1927

Dates of Surveys held while building

1927. May 6. 16. 20. Jun 1. 3. 13. 24. July 1. 12. 21. 28. Aug 11. 16. 24. Sept 1. 8. 19. 23.
Oct 3. 7. 12. 14. 17. 19. 20. 21. 24. 26. 27. 31. Nov 2. 9. 10. 16. 18. 21. 24. 28. Dec 26. 27. 29. 31.
1928. Jan 2. 16. 23. 27. 30. Feb 2. 6. 14. 24. Mar 2.

Total No. of Visits 55