

STEEL STEAMER ~~OR MOTORSHIP~~Received at London Office **TUES. 4 AUG 1925**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 **31 July 1925.**Port of **WEST HARTLEPOOL**No. **16323.**Survey held at **WEST HARTLEPOOL**Date First Survey **7th Jan'y**Last Survey **30 July**19**25**On the ~~(Single, Twin or Triple Screw)~~ **SS "KARTIGI"**State Type ~~(Full Scantling, Complete Superstructure with or without Tonnage Openings)~~**FULL SCANTLING**State Type of Erections **POOP TRUNK & FORECASTLE**TONNAGE under Tonnage Deck... **1950.09**CLASS **100 A.I.**State if with freeboard as condition of Class **No**

FEET.

Built at **WEST HARTLEPOOL**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 280'**Launched **22nd MAY 1925** Yard No. **974**Total **1950.09**Breadth (greatest moulded) **B 44.08**Builders **MESS^{rs} W^m GRAY & CO LTD**Gross Tonnage **2346.59**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 21.125**Owners **UNION. S.S. CO OF NEW ZEALAND LTD**Register Tonnage **1166.62**1st Longitudinal Number (L x D) **= 5915**Managers **✓**
(Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS.
FEET.Length **280.0**2nd Numeral L x (B + D) **= 18257**Residence **✓**Breadth **44.30**Framing Depth "d," at middle of length. See Sec. 3 (1d) **11.7**Proportions—Depth to Length—Uppermost continuous deck to top of keel **13.25**Port of Registry **WELLINGTON**Depth **18.9**Do. Long Bridge to top of keel **✓**If surveyed while building, afloat, **8** in dry dockDraught Moulded **18-24****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.
FRAMES, Spacing amidships	24	✓	Bracket Floors, Frame	✓	
" " from $\frac{1}{2}$ length to Collision bulkhead.....	24	✓	" " Reversed Frame	✓	
" " in peaks.....	24	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	35	444
Frame Amidships, Angle, E or [.....	7 3 36	✓	" " top Angles	3 3	42
" " Extends up to	BOTTOM OF SIDE TANKS	✓	" " bottom Angles	3½ 3½	46
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	ONE	34
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	24	40
Depth of Framing Girder.....	7	✓	" " Vertical Angle to Tank side	3 3	34
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....	✓		" " Bracket abaft $\frac{1}{4}$ len. from stem	DOUBLE 3 3	34
" " Second 'tween Decks, Angle, [or [.....	✓		" " Vertical Angle to Tank side	DOUBLE 3 3	34
" " Third " " " "	✓		" " Bracket forward $\frac{1}{4}$ len. from stem	EVERY 5 th FRAME 24 24	34
Framing in Peaks, Angle, [.....	5½ 3 47	✓	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	EVERY 4 th FRAME 24 24	34
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	¾ 27 DIAS	✓	" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....	24 24	34
State if Frame Joggled	No	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	50	36
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	DEEP FRAME SYSTEM AS APPROVED	✓	INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	B, C & D STRAKES & THICKNESS TO COLL. B nd RIVETS IN BOTTOM FRAMES—5½ DIAS APART ADDITIONAL INTERCOSTALS	✓	Breadth and thickness of Middle Line Strake	45	40
SINGLE BOTTOM.			Thickness of remainder in Holds		34
Floors, Depth and thickness at mid-line in Holds	✓		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	
Height of Brackets at side above base line at toe of frame	✓		BEAMS.		
Middle Line Keelson, on Floors, Angles, [or [.....	✓		Uppermost Continuous Deck, amidships in Wells, Angle, E or [.....	6 3	40
" " Through Plate or Intercostal Plate	✓		" " in way of Bridge, Angle, [or [.....	✓	
" " Foundation Plate on Floors	✓		Spacing	24	
" " Flat Plate Keel Angles	✓		Second Deck, amidships, Angle, [or [.....	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercostal Plate... ..	✓		Third Deck, amidships, Angle, [or [.....	✓	
" " Angles	✓		Spacing	✓	
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [or [.....	✓	
Solid Floors, thickness and spacing	34 24	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	YES	✓	Poop Deck, Angle, E or [.....	7 3	34
Bracket Floors, breadth and thickness at middle line.....	✓		Spacing	24	
" " breadth and thickness at margin plate.....	✓		Bridge Deck, Angle, [or [.....	✓	
			Spacing	✓	
			Forecastle Deck, Angle, E or [.....	7 3	34
			Spacing	24	

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.....									
DEEP BEAMS FITTED IN LIEU AS PER APPROVED PLAN.									
" in 'tween Decks, Size and Spacing.....	25/8		48						
" " " " " "									
" in Holds " "									
" " " " " "									
Centre Line Bulkhead.									
Stiffeners and Spacing.....									
Plating, thickness of									
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	60		54						
" " " " in way of Bridge									
" Angle in Wells	6	6	53						
Thickness of Plating abreast Deck openings } in way of Wells		46		106 ADDED FOR OWNERS.					
Thickness of Plating abreast Deck openings } in way of Bridge									
Thickness of Plating within line of openings... TRUNK		340							
If Sheathed, material and thickness									
Second Deck.									
Stringer Plate, breadth and thickness in Wells...									
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... TRUNK									
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.....									
Plating, Sheathing, material and thickness ...									
Forecastle Deck.									
Stringer Plate, breadth and thickness.....									
Plating, Sheathing, material and thickness ...									

SHELL PLATING.

SCANTLINGS.						RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if Joggled?	No	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.				SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.		Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.										
FLAT PLATE KEEL	44½	✓ 69	✓ 67	✓ 65	10 ADDED FOR OWNERS	2R.	7/8	3¾	3R	7/8	3½	LAPPED		
„ DBLG. (if any)	✓	✓				✓	✓	✓	✓	✓	✓			
BOTTOM PLATING, No. of Strakes ... 3		47	✓ 47	✓ 40	✓	2R	¾	3	3R	¾	2⅝	✓		
BILGE PLATING, No. of Strakes 7		47	✓ 43	✓ 42	✓	✓	✓	✓	✓	✓	✓	✓		
SIDE PLATING, No. of Strakes 2		47	✓ 41	✓ 42	✓	1 SEAM. 1R.	✓	✓	✓	✓	✓	✓		
UPPER DECK, Sheer-strake in Wells	48	✓ 67	✓ 54	✓ 42	✓	2R	7/8	3¾	4R.	7/8	3½	✓		
UPPER DECK, Sheer-strake in Bridge ...	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		
STRAKE BELOW Sheer-strake in Wells	60	✓ 57	✓ 46	✓ 43	✓	2R.	7/8	3¾	3R.	7/8	3½	✓		
STRAKE BELOW Sheer-strake in Bridge ...	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		
POOP SIDE PLATING	✓	✓	✓	33	✓	{ 2R	¾	3	2R	¾	2⅝	✓		
BRIDGE SIDE PLATING ...	✓	✓	✓	✓	✓	{ 1R	¾	3	1R	¾	2⅝	✓		
FORECASTLE SIDE PLATING	✓	✓	35	✓	✓	1R.	¾	3	1R	¾	2⅝	✓		

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) **FOUR**

 " Deck next below **✓**

As per Rule **FOUR.**

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, Upper tween decks	✓		✓		✓
" " Second "	✓		✓		✓
" " Third "	✓		✓		✓
" " Holds	29	37-26	8A ² 10x3 1/2 x 46	30	TOPSIDE TANKS.
COLLISION " (in Hold)		46-26	7x3x36	24	1 SEAM-BOX BEAM & WT. FLAT.
AFTER PEAK " "		44-30	6x5x38	24	RECESS. TOP.

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	FLAT PLATE	KEEL		
STEM	ROLLED	7 1/4 x 2 1/8	HICKMAN LTD	
STERN FRAME { Propeller Post	FORGING	8 1/2 x 5 1/2	CENTRAL MARINE ENGINE WORKS	
{ Rudder "	"	7 1/2 x 5 1/2	"	
RUDDER—A x D		85.7 x 2.87 = 246		
Speed of Vessel		NOT > 10 KNOTS		
RUDDER mainpiece at head	FORGING	7 1/4	CENTRAL MARINE E.W.	
" " heel		5 1/2		
" how constructed	FORGED & BUILT	.96		
" double or single plate coupling, vertical or horizontal		VERTICAL		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **DORMAN LONG & CO LTD ; CARGO FLEET IRON CO LTD ; SOUTH DURHAM STEEL & I.C.**

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

EQUIPMENT No. <u>19256</u>												LETTER <u>S</u>		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.					
40825	1st Bower ...	36	3	24	✓			✓	33	15	0	0	Cwts. 38 3/4 or 36 3/8	BRITANNIC (CAST STEEL HEAD) R. SYKES & SONS LTD. G. H. H. 31.3.25 J.L. Paul		
40828	2nd " ...	36	3	7	✓			✓	33	13	1	21	38 3/4 " 36 3/8			
40829	3rd " ...	36	3	2	✓			✓	38	11	3	14	32 1/2 " 36 3/8			
	Collective weight.	110	2	5									110			
16059	Stream	10	1	0	2	2	14	12	4	0	0	10	COMMON.	KENDRICK & MOLE LTD. G.F. 30/4/25. A. Jones.		
CHAIN CABLES																

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.	
28553	240	1 3/8	59 1/2	82 3/4	410.2	21	397 3/4		240	1 3/8	STUD LINK	KENDRICK & MOLE LTD G.F.	17/3/24	A. JONES	TOWLINE...	90	4	43 3/5	90	4
Iron Stream Steel Wire	75	Cir. 4 1/4		52 1/2	✓		✓		75	Cir. 4 1/4	SWR.	Edwin Ellis & Co.			HAWSERS & WARPS	2x90	2 1/2	12 1/2	2x90	2 1/2
															"	2x90	2 1/4	9 1/2	2x90	2 1/4

Steering Gear, Steam BROWN BROS & CO LTD EDINBURGH. Aux Steering Gear, Lead LEAD TO WINCH.

Boats 2-26 LIFEBOATS; 1-14 DINGHY Steering Chains, Size and Test. STEERING GEAR DIRECT ACTING Windlass CLARK. CHAPMAN & CO.

Ceiling in Holds, thickness and material 2 1/2" PINE Cargo Battens, thickness, material and spacing 6"x2" PINE; 8" APART.

Cargo Hatchways.—(Upper Deck). STEEL PLATES & ANGLES (AS APP'D) Thickness of Hatches HOGG CARR. PATENT COVERS

Size of No. 1 Hatchway (Forward) 18' x 19' 4 1/2" No. 2 18' x 24" No. 3 18' x 24" No. 4 18' x 24" No. 5 18' x 24" No. 6 ✓

Number of Shifting Beams and/or Fore and Afters HOGG CARR. PATENT COVERS FITTED AS APPROVED.

FOR WILLIAM GRAY & Co., LIMITED.
Builder's Signature A. W. Glashan Director

GENERAL DECLARATION This vessel has been built in accordance with the approved plans, the Secretary's letters and in other respects in accordance with the rules. The materials and workmanship are good.

The 10.9 Door bulkheads, decks, and Hogg Carr Patent hatch covers have been tested by hose and found satisfactory

The double bottom, topside, and fore and after peaks have been tested under rule pressure and found good.

The steam and auxiliary steering gears and the fore peak hand pump have been examined under working conditions and found satisfactory

The freeboards assigned by the Committee have been cut in and painted on the vessels sides and verified

The vessel is fitted with wireless telegraphy, & electric light and has cantilever framed topside tanks

The machinery is fitted aft.

The amount of Entry Fee ... £ 192. 7 : 0 Fees applied for, 31 July 1925.

Special Survey Fee ... £ 6 : 0 : 0 Received by me, (Signature) 1925

Freeboard Fee 7 : 0 : 0

Travelling Expenses, if any £ — : — : —

I am of opinion the Vessel should be Classed 100A.1.
(CANTILEVER FRAMED TOPSIDE TANKS)

State whether the Vessel has been built under Special Survey YES

Certificate to be sent to Hpl Date of issue 17/8/25.

Signature J.E. Sowden D.M. Auslan.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 7 AUG 1925

Character assigned 100A.1

Lloyd's Reg. O

Mh

+ Lmb 725
C.L.

The Surveyors are requested not to write on or before 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.)

LIST OF APPROVED PLANS:-

MIDSHIP SECTION 2 PLANS
PROFILE & DECKS 2 PLANS
BOTTOM STRENGTHENING FORWARD
W.T. BULKHEADS & PEAK TANKS
TRUNK SIDE PLAN
TRUNK TOP BEAMS
DEEP BEAMS IN LIEU OF HOLD PILLARS
STERN FRAME & RUDDER.
PUMPING PLAN.
STEERING GEAR.
HOGG CARR PATENT HATCH COVERS
CASING COAMING & BUNKER HATCHES

FORGING CERTIFICATES

STEM BARS (FOR NOS 974, 5 & 6 SHIPS) (SHEFFIELD NO 11050)
STERN FRAME & RUDDER FRAME (DARLINGTON NO 4819)
TILLER (NO 1134 F LEITH)

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

1st Bower 22-0-19 ; K.H. ; 3306 ; 16/1/25 .
2nd „ 22-0-12 ; M.B. ; 2318 ; 30/1/25 .
3rd „ 20-0-14 ; K.H. ; 3303 ; 16/1/25 .

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 80.6 ft., R.Q.D. ☒ ft., (TRUNK D¹⁷⁰ Bridge ☒ ft.) Forecastle 29.4 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) ONE DECK (STEEL)

Official No. SEE LETTER M. 29/7/25. ; Signal Letters Is bottom of Vessel coated with cement YES if not give particulars of composition ☒

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, 33-126	186	509	Fore peak tank,		224
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After peak tank,		120
Double bottom, if under Engines only,	26	59	Deep tank, aft,		<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	20	38	Deep tank, forward,		<input checked="" type="checkbox"/>
Double bottom, forward	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other tanks, if fitted, SIDE WING TANKS.		440
Total capacity of double bottom		606	(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. 2316

Date 17 Feb 1925.

Dates of Surveys held while building

1925.

Jan 7. 9. 12. 16. 20. 23. 26. 28. 30. Feb 11. 17. 19. 24. 26. Mar 2. 5. 10. 12. 17. 20. 23. 26. 27. 31.
Apr 2. 7. 9. 16. 21. 23. 27. May 1. 5. 8. 13. 15. 19. 21. 24. 29. Jun 4. 5. 8. 11. 16. 19. 22. July 1. 3. 6. 7.
9. 10. 11. 13. 15. 17. 20. 23. 27. 29. 30.

Total No. of Visits 62