

STEEL STEAMER ~~OR~~ MOTORSHIP

7 OCT 1929

Received at London Office

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 *October 4th /29* Port of *Middlesbrough* No. *13837*
Survey held at *Stockton-on-Tees* Date First Survey *11th March /29* Last Survey *Oct. 1st 1929*On the (State if Machinery fitted Aft and) *Single Sc. Sr. "PORTFIELD"*
(if Single, Twin or Triple Screw)State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling* State Type of Erections *Post, Bridge & Forecastle*TONNAGE under Tonnage Deck... *4075.21* CLASS **100A1* State if with freeboard as condition of Class *no* Built at *Stockton-on-Tees*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 380.0* Launched *8th Aug. /29* Yard No. *226*Total *4075.21* Breadth (greatest molded) *B 51.7* Builders *Craig, Taylor & Co. Ltd.*Gross Tonnage *4425.17* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 27.66* Owners *Portfield Steamship Co. Ltd.*Register Tonnage *2661.62* 1st Longitudinal Number (L x D) = *10511* Managers *W.E. Hind & Co.*
(Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS.

Framing Depth "d," at middle of length. See Sec. 3 (1d) *Corrected 23.6* Residence *Cardiff*
Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.73* Port of Registry *Cardiff*
Do. Long Bridge to top of keel *10.66* If surveyed while building, afloat, or in dry dock
Draught Moulded *23.84* *While building & afloat.*

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	27	✓	Bracket Floors, Frame	6 x 3½ x 36	✓ 34
" from ¾ length to Collision bulkhead	27	✓	" " Reversed Frame	5½ x 3 x 34	✓
" in peaks	24	✓	" " Vertical Struts	9 x 3½ x 38	✓
FRAMING.			Centre Girder, depth and thickness amidships	41 x 50 x 40	✓
Amidships, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	12 x 3½ x 46	N.B.S. ✓	" " top Angles	3 x 3 x 50 x 48	✓
" Extends up to	Upper Dk.	✓	" " bottom Angles	4 x 4 x 54 x 50	✓
Side Frame Amidships, Angle	Bull Angle	✓	Side Girders, No. each side and thickness	one 37	✓
" Extends up to	Framing	✓	Margin Plate depth (excl. of flange) and thickness	39 x 47	✓
of Framing Girder	12	✓	" " Vertical Angle to Tank side	3½ x 3½ x 43	✓
Long Bridge		✓	" " Bracket abaft ½ len. from stem	3½ x 3½ x 43	✓
Uppermost Continuous Decks, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	7 3½ x 35 on all floors. for 4 spaces at each end of Bridge on every frame	✓	" " Vertical Angle to Tank side	3½ x 3½ x 43	✓
Second Tween Decks, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	7 3½ x 35	✓	" " Bracket forward ½ len. from stem	6 x 6 x 50	✓
Third " " " "	✓	✓	" " Gussets, spacing and scantling abaft ½ len. from stem	Every frame 3½ x 3½ x 39	✓
ing in Peaks, Angle or $\frac{B.A.}{\pi}$	7½ x 3½ x 35	✓	" " Gussets, spacing and scantling forward ½ len. from stem	Every frame 3½ x 3½ x 39	✓
ter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6½	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	6 x 3 x 43	✓
f Frame Joggled	no	✓	INNER BOTTOM PLATING.		
ARRANGEMENTS (Sec. 7), state system and particulars	15 x 4 x 4 x 56 ✓ 3 Side Stringers & 3 tiers of Beams in Fore peak	✓	Breadth and thickness of Middle Line Strake	49 x 48	✓
THENING OF BOTTOM FOR- D. State Particulars	A.B.C. Shapes midships. Distances to Rule position of Collision Rd. Double frame & clear spaced intercostals	✓	Thickness of remainder in Holds	40 x 36	✓
BOTTOM.			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?	48 UNDER MARCHES. <i>yes</i>	✓
Depth and thickness at mid-line in Holds		✓	BEAMS.		
Height of Brackets at side above base line at toe of frame		✓	Uppermost Continuous Deck, amidships in Wells, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	10 x 3½ x 49	N.B.S. ✓
Line Keelson, on Floors, Angles, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$		✓	" " in way of Bridge, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	10 3½ x 45	N.B.S. ✓
" " Through Plate or Intercostal Plate		✓	Spacing	27	✓
" " Foundation Plate on Floors		✓	Second Deck, amidships, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$		✓
" " Flat Plate Keel Angles		✓	Spacing		✓
elons, No. each side		✓	Third Deck, amidships, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$		✓
" thickness of Intercostal Plate		✓	Spacing		✓
" Angles		✓	Fourth Deck, amidships, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$		✓
Spacing		✓	Spacing		✓
Are Frame and Reversed Frame joggled?	<i>yes</i>	✓	Poop Deck, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	7 x 3 x 375	✓
Floors, breadth and thickness at middle line	31 x 37	✓	Spacing	27 x 24	✓
" breadth and thickness at margin plate	31 x 37	✓	Bridge Deck, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	9 x 3½ x 40	✓
		✓	Spacing	27	✓
		✓	Forecastle Deck, Angle, $\frac{E}{\pi}$ or $\frac{B.A.}{\pi}$	9 x 2½ x 40	N.B.S. ✓
		✓	Spacing	27 x 24	✓

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PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.	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.....	Plating, Sheathing, material and thickness ...	Forecastle Deck. Stringer Plate, breadth and thickness.....	Plating, Sheathing, material and thickness ...	Any Departure from Approved Plans to be Noted.
	INCHES IN SHIP.	INCHES IN SHIP.	INCHES IN SHIP.																	
one	24	54	48	✓	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	Stringer Plate, breadth and thickness.....	If Plated, state thickness.....	Stringer Plate, breadth and thickness.....	If Plated, state thickness	Stringer Plate, breadth and thickness	Plating, Sheathing, material and thickness ...	Stringer Plate, breadth and thickness.....	Plating, Sheathing, material and thickness ...	Stringer Plate, breadth and thickness.....	Plating, Sheathing, material and thickness ...	
in 'tween Decks, Size and Spacing.....																				
" " " " " "																				
in Holds " " " " " "																				
Centre Line Bulkhead. Stiffeners and Spacing.....	12	3 1/2	3 1/2	✓																
Plating, thickness of	8	3	46	✓																
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	60	10	60	✓																
" " " " " " in way of Bridge	62	2	40	✓																
" Angle in Wells	6	6	30	✓																
Thickness of Plating abreast Deck openings in way of Wells	70	60	For	✓																
Thickness of Plating abreast Deck openings in way of Bridge	38			✓																
Thickness of Plating within line of openings.....	32			✓																
If Sheathed, material and thickness	5	3	P.P.	✓																
Second Deck. Stringer Plate, breadth and thickness in Wells.....	✓	✓	✓	✓																

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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.	
FLAT PLATE KEEL	49	73	65	65		Double	1	4"	4 to 3	1"	5 1/2	Lapped	
" DBLG. (if any)						Double	7/8	3 1/2	3	7/8	3 1/8	Lapped	
BOTTOM PLATING, No. of Strakes	A 67	57	57	57		"	"	"	"	"	"	"	
"	B "	"	"	53		"	"	"	"	"	"	"	
BILGE PLATING, No. of Strakes	C "	"	53	57		"	"	"	"	"	"	"	
"	D "	"	47	46		"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes	E 71	"	43	"		"	"	"	"	"	"	"	
"	F 68 1/2	"	"	"		"	"	"	"	"	"	"	
UPPER DECK, Sheer-strake in Wells.....	G 67	"	106	(80 Doubled)	✓	"	1	4"	5	1 1/8	5	19' Snap at 20' overlap for 3'	
UPPER DECK, Sheer-strake in Bridge ...	K 67	57	43	43	at ends of ship)	Double	7/8	3 1/2	3	7/8	3 1/8	Lapped	
STRAKE BELOW Sheer-strake in Wells.....	J 67	"	64	75		"	1	4"	4	1	4	14' overlap for 3'	
STRAKE BELOW Sheer-strake in Bridge ...	J 67	57	43	43		Double	7/8	3 1/2	3	7/8	3 1/8	Lapped	
POOP SIDE PLATING				38		Single	3/4	3	one	3/4	2 5/8	Lapped	
BRIDGE SIDE PLATING ...	85 1/2	59	in one plate			IN ONE PLATE			4	7/8	3 1/2	Lapped	
FORECASTLE SIDE PLATING			40			Single	3/4	3	one	3/4	2 5/8	Lapped	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 6

" Deck next below 1

As per Rule 6

MIDSHIP BULKHEAD, Upper tween decks	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
" " Second	48	40-26	2 1/2 3 1/2 46	27 70	✓
" " Third	73	"	8A-N.B.S.	31"	✓
" " Holds	95	46-26			✓
" " (in Hold)	139	40-26	2 1/2 3 1/2 50 30		✓
COLLISION	161	44	26 10 5 3 1/2 40A	24	2 S.B. Beams
AFTER PEAK	8-14	45	32 8 3 1/2 42	24	2 S.B. Beams

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat Plate		J. Manson Ramsay	
STEM	Rolled Steel	9 x 2 1/2	Glasgow.	
STERN FRAME	Propeller Post	Forging 10 x 7 1/4	Darlington	
	Rudder	" 9 x 7 1/4	Forge	
RUDDER—A x D.....	179			
Speed of Vessel.....	10 knots.			
RUDDER mainpiece at head ...	8 1/2, 9 1/4	Darlington		
" " heel ...	4 8 1/2	Forge		
" how constructed	Twin Balanced type			
" double or single plate	Single 1 1/4 x 81			
" coupling, vertical or horizontal	Vertical, scarfed.			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Plates:— South Durham, Bolckow Vaughan, Torman Long.
Sections:— Torman Long, Cargo Fleet, Bolckow Vaughan, Fidler & Partners

Has the Steel been tested as required by the Rules?

yes.

Open Hearth
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Foundation

EQUIPMENT No. 32408										LETTER "Y"		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.						
44705	1st Bower ...	60	2	7	37	2	20	48	12	2	0	60	Greens Quick Grip	J. Green & Co. Ltd.	Gradley Heath 27/8/29 S.C.S.		
44706	2nd „ ...	59	0	21	37	2	2	47	18	0	14	60		„		„	
44707	3rd „ ...	51	2	8	31	2	0	43	7	3	7	50½	„	„	„		
	Collective weight.	171	1	8								170½					
	Stream	16	1	0	STOCK			4	2	14	17	11	3	14	✓ 16¼ Ex. Stock	ordinary	„

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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
43180	270	2 ³ / ₁₆	86 ¹ / ₂	120 ¹ / ₂	663-1-7	645 ³ / ₄	270	2 ³ / ₁₆	5/16 LINK.	J. Green & Co. Ltd.	Bradley Heath 27/8/29 L.C.S.	TOWLINE...	120	4 ¹ / ₄	47	120	4 ¹ / ₄	
												HAWSERS & WARPS	90	2 ³ / ₄	15 ¹ / ₂	90	2 ³ / ₄	
												"	90	2 ³ / ₄	15 ¹ / ₂	90	2 ³ / ₄	
		Cir.										"	90	2 ¹ / ₂	12 ¹ / ₂	90	2 ¹ / ₂	
Iron Stream Chain - or Steel Wire	90	4 ¹ / ₄	✓	47			90	4 ¹ / ₄	P.S.W.	Wood, Naggie & Son. Ltd.		"	90	2 ¹ / ₂	12 ¹ / ₂	90	2 ¹ / ₂	

Steering Gear, Steam *Wigham & Co. Ltd. Sunderland* Steering Gear, Hand *Blocks & Tackle*
 Boats *2 Lifeboats 26'0" x 8'0" x 3'3"* Steering Chains, Size and Test *1 3/8" 16-8* Windlass *Emmerson Walker*
1 Dinghy 16'0" x 5'6" x 2'3"
 Ceiling in Holds, thickness and material *under hatches only 2 1/2" H.W.* Cargo Battens, thickness, material and spacing *6" x 2 1/4" W. 9" apart.*
 Cargo Hatchways.-(Upper Deck) *Steel Coamings 36" x 4 1/2"* Thickness of Hatches *3" H.W.*
 Size of No. 1 Hatchway (Forward) *27'3" x 20'0"* No. 2 *27'0" x 20'0"* No. 3 *20'3" x 19'0"* No. 4 *27'0" x 19'0"* No. 5 *27'0" x 24'0"* No. 6 *15'9" x 17'0"*
 Number of Shifting Beams and/or Fore and Afters *Five in No. 1, 2, & 5, Three in No. 3, Four in No. 4, Two in No. 6.*

For CRAIG, TAYLOR & CO. LIMITED.
 Builder's Signature *William Young* Director.

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, the Secretary's letters of dates March to Sept/29. and in general conformity with the Rules & Regulations for the class contemplated.

The materials and workmanship are good.

All double bottom tanks, after & fore peak tanks, W.T. Bulkheads, Decks, shaft tunnel, ash shoot, & W.T. Doors have been tested to Rule requirements with satisfactory results. The Windlass, Winches, Steam Steering gear together with blocks & tackle for secondary means of steering have been tested under working conditions & found satisfactory.

Cargo battens are fitted in Bridge tween decks.

The forgings reports together with plans of Midship Section & Profile & Decks (as built) also the approved plans mentioned overleaf are enclosed herewith.

The assigned freeboard has been cut on the vessels sides & verified.

The amount of Entry Fee £ 8 : - : - Fees applied for, *ASM*
 Special Survey Fee.... £ 296 : 5 : - *5-10-1929*
Freeboard 9-3-4 Received by me, *8-10-29*
 Travelling Expenses, if any £ : : -

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

State whether the Vessel has been built under Special Survey *yes.*

Signature

John H. Stoker.

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Middlesbrough* Date of issue *10/10/29*

Committee's Minute

FRI. 11 OCT 1929

Character assigned

+ 100 A1

+ L.M.C. 10-29
Cr.

Lloyd's A+C.P.

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W498-01929

W498-01929

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.)

No 11881 Report dated 17th March /24 of Sister Vessel s/s "PORTCURNIO"

List of Plans :- Midship Section, Profile & Decks, Balanced Rudder & Stern Frame, (2 copies) Peak Bulkheads, Bottom stiffening forward. Hatches & Guides & Centre line B&D.

Particulars of Drop Test of Cast Steel Anchors, viz. :- Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	34-1-12	A.L.	4358,	6 th June /29.
	2nd "	34-0-26	M.A.B.	4300	6 th April /29.
	3rd "	28-2-25	M.A.B.	1250	9 th July /27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 60.5 ft., R.Q.D. ☒ ft., Bridge 227.25 ft., Forecastle 29.25 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). 1 SK. (SK.)

Official No. 148310 ; 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, aft,	130.5	425	Fore peak tank,	21.25	150
Double bottom, under Engines and Boilers, Dry Tank	20.25	—	After peak tank,	22.00	165
Double bottom, if under Engines only,	20.25	86	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	153.00	557	Other tanks, if fitted,	✓	✓
Total capacity of double bottom		1068	(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. 1451

Date 14th March /29

Dates of Surveys held while building

1929: Mar 11, 15, 22, 27 Apr 2, 8, 11, 19, 26 May 1, 3, 9, 13, 16, 17, 27, 31 June 3, 11, 15, 18, 21, 25, 28 July 4, 10, 13, 17, 20, 22
24, 27 Aug 1, 6, 8, 14, 16, 26, 27 Sep 6, 16, 19, 20, 23, 24, 25, 26, 27, 30 Oct 1

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Total No. of Visits 50