

## STEEL STEAMER or MOTORSHIP.

Received at London Office 4 NOV 1927

State if Report has been sent on the Freeboard of the Vessel

State if Report is sent on the Machinery of the Vessel

Date of completion of report 31 October 1927 Port of Louth No. 17275  
Survey held at Burntwood Date First Survey 29 December 1926 Last Survey 24 October 1927On the (State if Machinery fitted Aft and (Single screw, Mach amidships)  
SS "PENTOR"

State Type (Full scantling, Complete Superstructure with or without Tonnage Openings) Full scantling State Type of Erections P B &amp; F

TONNAGE under 3846.63 CLASS + 100A1. State if with freeboard as condition of Class Built at Burntwood

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) 368.0  
Launched 14 September 1927 Yard No. 141

Total 3846.63 Breadth (greatest moulded) 51.16 Builders The Burntwood Shipbuilding Co.

Gross Tonnage 4061.75 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 27.54 Owners The Pentwyn Steamship Co. Ltd.

Register Tonnage 2482.43 1st Longitudinal Number (L x D) 10136 Managers  
(Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS. FEET. 2nd Numeral L x (B + D) 28965 Residence Cardiff

Length 370' Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.75 Port of Registry London

Breadth 51.4' Proportions Depth to Length Uppermost continuous deck to top of keel 13.36 If surveyed while building, afloat, or in dry dock

Depth 25.15' Draught Moulded 23.64 while building

## 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 from Bridge front to after BHD	28	/	Bracket Floors, Frame	6 1/2 3 1/2 36	/
" " from Bridge front to Collision bulkhead	27	/	" " Reversed Frame	6 3 36	/
" " in peaks	24	/	" " Vertical Struts	9 3 x 3 38 48 BS	/
" " Fore Peak	26	/	Centre Girder, depth and thickness amidships	40 50 BS	/
DE FRAMING. 28" spacing	12 3 1/2 60	/	" " top Angles	6 6 48 BS	/
Frame Amidships, Angle [ or ]	6 1/2 1/2 1/2	/	" " bottom Angles	6 6 54 BS	/
" " Extends up to	6 1/2 1/2 1/2	/	Side Girders, No. each side and thickness	one 36 46 BS	/
Reversed Frame Amidships, Angle	/	/	Margin Plate depth (excl. of flange) and thickness	34 47 BS	/
" " Extends up to	/	/	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 6 44	/
Depth of Framing Girder	12	/	" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6 6 44 single	/
Frames in Uppermost Continuous tween Decks, Angle, [ or ]	/	/	" " Gussets, spacing and scantling abaft 1/4 len. from stem	3 1/2 x 3 1/2 x 43	/
" " Second tween Decks, Angle, [ or ]	/	/	" " Gussets, spacing and scantling forward 1/4 len. from stem	3 1/2 x 3 1/2 x 43	/
" " Third " " "	/	/	Tank Side Brackets, height above base line at toe of Frame and thickness	73 44	/
Framing in Peaks, Angle [ or ]	7 1/2 3 33 32	/	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	178 6 1/4	/	Breadth and thickness of Middle Line Strake	53 1/2 48	/
State if Frame Joggled	7 1/2	/	Thickness of remainder in Holds	41 6 37 1/2 36 1/2	/
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars	6 x 6 x 50 square L 6 x 6 x 43 double L 6 x 6 x 38 single L	/	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?	7 1/2	/
STRENGTHENING OF BOTTOM FOR FORWARD. State Particulars	at bottom of centre girder. bottom plating 56	/	BEAMS.		
DOUBLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	10 3 1/2 49	/
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, [ or ]	10 3 1/2 45	/
Height of Brackets at side above base line at toe of frame			Spacing	28	/
Middle Line Keelson, on Floors, Angles, [ or ]			Second Deck, amidships, Angle, [ or ]	/	/
" " Through Plate or Intercoastal Plate			Spacing		/
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [ or ]	/	/
" " Flat Plate Keel Angles			Spacing		/
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [ or ]	/	/
" " thickness of Intercoastal Plate			Spacing		/
" " Angles			Poop Deck, Angle, [ or ]	6 x 3 x 32	/
DOUBLE BOTTOM.			Spacing	24	/
Solid Floors, thickness and spacing	37 84	/	Bridge Deck, Angle, [ or ]	8 3 40	/
" " Are Frame and Reversed Frame joggled?	47 in BS iron frame	/	Spacing	28	/
Bracket Floors, breadth and thickness at middle line	36 37 47 BS	/	Forecastle Deck, Angle, [ or ]	6 3 40	/
" " breadth and thickness at margin plate	60 37 47 BS	/	Spacing	26	/



## 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.
<b>PILLARS, No. of Rows.....</b>	<i>m</i>	/	Stringer Plate, breadth and thickness in way of Bridge .....		/
" in 'tween Decks, Size and Spacing..... <i>P B F</i>	<i>27/8 x 48 " 56 also " 52</i>	<i>I at hatch ends</i>	Thickness of Plating abreast Deck openings in way of Wells .....		/
" " " " "		/	Thickness of Plating abreast Deck openings in way of Bridge .....		/
" in Holds		/	Thickness of Plating within line of openings...		/
<i>Pillars are fitted as approved alternative section being fitted round Bulkhead.</i>		/	If Sheathed, material and thickness .....		/
Stiffeners and Spacing.....		/	<b>Third Deck.</b>		/
Plating, thickness of .....		/	Stringer Plate, breadth and thickness.....		/
<b>STRINGERS AND DECKS.</b>		/	If Plated, state thickness.....		/
<b>Uppermost Continuous Deck.</b>		/	<b>Fourth Deck.</b>		/
Stringer Plate, breadth and thickness in Wells	<i>54 70</i>	/	Stringer Plate, breadth and thickness.....		/
" " " " in way of Bridge	<i>54 37</i>	/	If Plated, state thickness .....		/
" Angle in Wells .....	<i>6 6 64</i>	/	<b>Poop Deck.</b>		/
Thickness of Plating abreast Deck openings in way of Wells .....	<i>56</i>	/	Stringer Plate, breadth and thickness .....	<i>34 34</i>	/
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>34</i>	/	Plating, Sheathing, material and thickness ✓	<i>26 2 1/2 PP sheathing abreast of coal tanks</i>	/
Thickness of Plating within line of openings...	<i>32 + 38</i>	/	<b>Bridge Deck.</b>		/
If Sheathed, material and thickness .....	<i>✓</i>	/	Stringer Plate, breadth and thickness.....	<i>54 68 50</i>	/
<b>Second Deck.</b>		/	Plating, Sheathing, material and thickness ✓	<i>40 5 34</i>	/
Stringer Plate, breadth and thickness in Wells...	<i>L</i>	/	<b>Forecastle Deck.</b>		/
		/	Stringer Plate, breadth and thickness.....	<i>.33 as per D plan</i>	/
		/	Plating, Sheathing, material and thickness ✓	<i>.33</i>	/

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. No 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.
FLAT PLATE KEEL .....	✓ 63 <sup>3</sup> / <sub>4</sub>	.72	.64	.64	✓	Double	1	<sup>above</sup> 3½	Quad Tumble	1" 7/8	3 1/8	3 1/8	Lapped
" DELG. (if any) ✓													
BOTTOM PLATING, No. } of Strakes ... 3 .....	83 <sup>3</sup> / <sub>16</sub> 82 <sup>5</sup> / <sub>8</sub> 82 <sup>5</sup> / <sub>8</sub>	.57	.45	.45	✓	Double	7/8	3 1/2	Tumble	7/8	3 1/8		"
BILGE PLATING, No. of } Strakes ..... 1 .....	76 <sup>3</sup> / <sub>4</sub>	.57	.45	.45	✓	"	"	"	"	"	"		"
SIDE PLATING, No. of } Strakes ... 3 .....	76 <sup>3</sup> / <sub>8</sub> 76 <sup>3</sup> / <sub>8</sub> 73 <sup>1</sup> / <sub>4</sub>	.57	.43	.43	✓	"	"	"	"	"	"		"
UPPER DECK, Sheer- strake in Wells..... }	50	.64	no profile		✓	"	"	"	Quad Tumble	1" 7/8	3 1/8	3 1/8	"
UPPER DECK, Sheer- strake in Bridge ... }	50	.57	.43	.43	✓	"	"	"	Tumble	7/8	3 1/8		"
STRAKE BELOW Sheer- strake in Wells..... }	.50	.66	no profile		✓	Double	7/8	3 1/2	Tumble	7/8	3 1/8		"
STRAKE BELOW Sheer- strake in Bridge ... }	50	.57			✓	single	3/4	3	single	3/4	2 9/8		"
POOP SIDE PLATING .....				.37	✓	Double	7/8	3 1/2	FOL Tumble	7/8	3 1/8	3 1/8	3 1/8
BRIDGE SIDE PLATING ...	.63				✓	single	3/4	3	single	3/4	2 9/8		"
FOREC'TLE SIDE PLATING			.42		✓								

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		6	
Extending to Upper Deck (Sec. 3 c)		✓	
" Deck next below		6	
As per Rule		✓	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
frame No. 36 Second ✓	BA39-31	12x32x54	30		
" " 62 Third ✓	" 39-30	" " "	"		
" " 81 Hold ✓	" 45-30	" " "	"		
" " 124	40x32	2x32x37x55	30		
COLLISION " (in Hold) ✓	45x38x26	1x32x42	30		
AFTER PEAK " " ✓	70x60	8x31x36	24		round fatigue

**FORGINGS and CASTINGS.**

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	✓ Plate steel			
STEM .....	✓ Rolled steel 11 $\frac{1}{4}$ " x 9" x 27 $\frac{1}{8}$ "			
Stern Frame .....	{ Propeller Post ..... cast steel 18 $\frac{1}{2}$ " x 7 $\frac{1}{4}$ "		Withowitz Munnings	
	{ Rudder " ..... cast steel 27 $\frac{1}{8}$ " x 8"		Steel from blocks	
RUDDER—A x D.....		390		
Speed of Vessel.....	✓ 10 knots			
RUDDER mainpiece at head .....	✓ Forging 9 dia			
" " heel ✓		6 $\frac{3}{4}$ dia		
" " how constructed .....	Mainpiece 5 arms : plate			
" double or single plate .....	single 1.04			
" 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) *The Steel Co of Scotland Ltd* *Peace Partners* *David Colville Smith* *Phoenix*  
*The Lanarkshire Steel Co Ltd* *Societe des Forges d'Acieris de Denain & Anzin* *(OH)*  
Has the Steel been tested as required by the Rules? *yes*



EQUIPMENT No. 30870										LETTER X		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.		
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.						
30203	1st Bower	56	1	0	✓			46	3	0	14	56	1	0	Byers JS.	✓	Sunderland 28/7/27 JH13
30170	2nd "	56	1	0				46	3	0	14	56	1	0	" "	✓	" 7/8/27 "
30243	3rd "	47	3	0				40	19	1	14	47	2	0	" "	✓	" 17/9/27 "
	Collective weight	150	1	0								160	0	0			
89118	Stream	15	0	6	3	3	20	16	12	0	21	✓	Ordinary	✓	Hutton 30/6/27 Hg		

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- Tons.	Break- ing.	Supplied.	Per Rule.			Length.	Diam.					Length.	Cir.		Length.	Cir.			
80549	Fathoms.	Ins.	Tons.	Tons.	Owts.	qrs.	lbs.	Owts.	Fathoms.	Ins.												
	270	2 1/8	8 1/4	11 3/4	60	3	0	60	3	0	270	2 1/4	SL	Hutton 30/6/27 Hg	TOWLINE...	120	4 1/2	39	120	4 1/2		
															HAWSERS & WARPS	90	2 1/2		90	2 1/2		
															"	90	2 1/2	u	90	2 1/2		
															"	90	2 1/2		90	2 1/2		
															"	90	2 1/2	lth	90	2 1/2		
															"	90	2 1/2		90	2 1/2		
Iron Stream Chain or Steel Wire		Cir.								Cir.												
	90	4 1/2	5 1/2	39						90	4 1/2	5 1/2										

Steering Gear, Steam	J. Lynn & Co. Ltd.	Steering Gear, Hand	Relieving Tackle
Boats	Two life boats	Steering Chains, Size and Test	1 1/2" dia 18 3/4 tons
Celling in Holds, thickness and material	2 1/2" W.W.	Cargo Battens, thickness, material and spacing	6" x 2" W.W. - 15"
Cargo Hatchways.-(Upper Deck)	5 of steel plates & sections	Thickness of Hatches	2 3/4" N°1, 2 x 5. 3" N°3. 2 1/2" N°4.
Size of No. 1 Hatchway (Forward)	27'0" x 18'0" No. 2 23'0" x 18'0" No. 3 11'8" x 16'5 1/2" No. 4 25'8" x 17'11 1/2" No. 5 28'0" x 17'11 1/2" No. 6		
Number of Shifting Beams and/or Fore and Afters	N°1, 4. N°2, 4. N°3, 1. N°4, 4. N°5, 4.		

Builder's Signature	For THE BURNETT & CO. BUILDING COMPANY LTD.	Secretary.
	J. B. Boynes	

GENERAL DECLARATION This Vessel has been built in accordance with the approved plans and in conformity with the Rules. The material and workmanship are good. The double bottom tanks, the Fore & After Peakers, weather decks, shaft tunnel & W.T. Bulkheads have been tested in accordance with the Rules, the results of tests were satisfactory; the W.T. doors & steering gear have been run in good working order. The Fore and Afters have been cut on both sides & Verified. The Shell plating to Stern Frame is of Rule thickness.

The following plans are forwarded herewith:- Midship Section; Proposed alternative arrangement of bulkhead floor; Proposed method of construction of bilge; Arrangement of painting frame tank bracket connections; Profile & decks; Pillars & Braces; Bulkhead plating; Tunnel Arrangement; Modification of size of tunnel stiffeners; Stern frame & Rudder; Rudder Quadrant.

The amount of Entry Fee	£ 8 : 0 : 0	Fees applied for,	3rd Nov 1927
Special Survey Fee	£ 278 2 : 0	Received by me,	7.12.27
Travelling Expenses, if any	£ 8 : 4 : 0		
Total	£ 8.6.8		
State whether the Vessel has been built under Special Survey	yes	I am of opinion the Vessel should be Classed	+100A1.
Hull Certificate to be sent to	Lt. G. G.	Signature	Ernest Edwards.
			Surveyor to Lloyd's Register of Shipping.
		Date of issue	8/12/27

Committee's Minute	FRI. 18 NOV 1927
Character assigned	+100A1.
	Lloyd's Assoc. + L.M.C. 10.27
	W. H. G. 18/11/27



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.)

Arrangement of After end of Plate bulkhead.  
Pumping plan: Diagrammatic arrangement of  
Ballast pump to tanks & overboard.  
Equivalent Standard Sections.  
Three Reports on Forgings & Castings are enclosed.

Note:—Sister Kessel, Shipyard N<sup>o</sup> 144 is now under construction, if it is convenient to return the above mentioned plans same will be again forwarded when reporting upon N<sup>o</sup> 144.

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

1st Bower	31-1-4	M. Plag	3136	29-6-27
2nd "	31-2-26	Harl Hans	4659	22-6-27
3rd "	<del>17-8-27</del>	<del>J. H. Dwyer</del>	<del>3215</del>	<del>28-7-27</del>
	4-8-27	M. Plag	3215	28-7-27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.4 ft., R.Q.D. ft., Bridge 22.4 ft., Forecastle 24.33 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).

10" SIX

Official No. 149920; 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, <i>Ford</i> N <sup>o</sup> 1	61.08	164	Fore peak tank,	18.83	77
Double bottom, under Engines and Boilers, N <sup>o</sup> 2	102.66	442	After peak tank,	27.28	189
Double bottom, if under Engines only, N <sup>o</sup> 3 E.T.B.	39.66	172	Deep tank, aft,		
Double bottom, if under Boilers only, N <sup>o</sup> 4	63.00	253	Deep tank, forward,		
Double bottom, forward, aft N <sup>o</sup> 5	51.33	96	Other tanks, if fitted,		
Total capacity of double bottom		1126	(If necessary, furnish further information by sketch.)		

N<sup>o</sup> 3 Tank under E.T.B.

Order for Special Survey No. 1153

Date 20 Nov 1926

Dates of Surveys held while building

1926 Decem 29.  
1927 Feb 3, 16, 24. Mar 16 April 7, 13, 18, 22, 29  
May 6, 12, 18, 24, 30. June 7, 9, 15, 22, 30 July 8, 13, 26  
Aug 1, 2, 5, 9, 11, 12, 16 Oct 11, 14, 17, 24, 24

Total No. of Visits