

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

TUES. 10 APR 1906

No.

12895

Port of WEST HARTLEPOOL

Date of completion of Report 3rd April 1906 Received at London Office

Survey held at West Hartlepool Date, First Survey 25th August 1905

Last Survey 31st March 18 1906

On the S.S. "Coaling" ex "Shalva"

Rig Schooner

TONNAGE under Tonnage Deck 3592.17

SPAR, AWNING OR PART AWNING-DECKED VESSEL,

Master O. Williams

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

CLASS 100 A

Year of Appointment (1) As Master in service of owner of present vessel: 1904 (2) As Master of this vessel: 1906

Total under Upper Dk. 3592.17

FEET.

Built at West Hartlepool

When built 1905-1906 Launched 27th Dec. 1905

By whom built Furness, Withy & Co. Ltd

Owners Elder, Dempster & Co.

Managers

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

Residence Liverpool

Port belonging to Liverpool

Bridge House 43.24  
Forecasts 53.09  
Tousses on Deck 43.36  
Access of Hatchways 62.03  
Crown of Room 3743.89  
Tonnage 64.15  
No Space 62.03  
Crown of Room 3667.71  
FOR FEES 1214.04  
Engine Room 40.74  
Navigation Spaces

Half Breadth (moulded) 23.41

Depth from upper part of keel to top of Main Deck Beams 23.83

Girth of Half Midship Frame (as per Rule) 42.66

1st Number 89.90

Length 338.16

2nd Number 30400

Proportions—Breadths to Length 7.22

Depths to Length—Main Deck to top of Keel 14.19

Destined Voyage Has Palmaria Cardiff Surveyed while Building, Afloat, & in Dry Dock

TH on Deck 338 2 BREADTH—Feet. Inches. 46 10 DEPTH, top of Floors to Spar 27.4 Dk. Beams 27 4 1/2 Power of Engines No. of Decks with flat laid One. No. of Tiers of Beams Two.  
ions of Ship per Register, Length 340.0 breadth 47.1 depth 27.4 Spar 27.4 Dk. Beams 27 4 1/2 Power of Engines No. of Decks with flat laid One. No. of Tiers of Beams Two.  
Main Deck. Moulded depth, ft. 22 ins. 10 To Main Dk. Round up of Beam, Main Dk. 12 ins. Spar 29 10 - Spar - Spar

FRAMING.						FORGINGS AND CASTINGS.					
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
IE, Angles, or L Bars, for 1/2 length amidships	7 3/4	12 7 3/4	12	7 3/4	12	KEEL, Bar or Side Plates, depth and thickness	11 x 2 3/4	11 x 2 3/4			
for 1/2 at each end	7 3/4	11 7 3/4	11	7 3/4	11	STEM, moulding and thickness Cast & forged	11 x 6 1/2	11 x 6 1/2			
in way of Double Bottoms at Solid Floors						STERN-POST for Rudder do. do. Cast	11 x 6 1/2	11 x 6 1/2			
at intermdt. Bkts.						" " for Propeller	11 x 6 1/2	11 x 6 1/2			
ace of Frames from moulding edge to						MAIN PIECE of Rudder, diameter at head Cast	9 3/4	9 3/4			
adding edge, all fore and aft						do. at heel forged	6 3/4	6 3/4			
ERSED FRAME, Angles						RUDDER, how constructed Single plate as per approved plan					
P FRAMING, depth of girder						Can the Rudder be unshipped afloat? Yes.					
ORS, depth and thickness of Floor Plate						KEELSONS AND STRINGERS.					
at mid-line for 1/2 length amidships						CENTRE LINE KEELSON, Vertical Plate above					
in way of Engines and Boilers						floors, Through Plate, or Intercoastal Plate					
thickness at the ends of vessel						" Rider Plate					
depth at 1/2 the half-bdth. as per Rule						" Bulb Plate to Intercoastal Keelson					
height extended at the Bilges						" Horizontal Plates on Floors					
ORS & BRACKETS, in Cell Dble Bottoms	41	28	9 41	28	9	" Angles					
Distance apart						SIDE KEELSON, Angles					
IRE GIRDER, in Double bottom, depth	41	10 41	10	41	10	" Bulb or Plate above floors, for					
and thickness						" Intercoastal Plate, for					
" Angles, Top	4 4	9 4 4	9	4 4	9	" Attached to outside plating with Angle					
" Bottom	4 4	12 4 4	12	4 4	12	BILGE KEELSON, Angles					
GIRDERS, number and thickness	3 3 1/2	8 3 3 1/2	8	3 3 1/2	8	" Bulb or Plate above floors, for					
Angles	3 3 1/2	8 3 3 1/2	8	3 3 1/2	8	" Intercoastal Plate, for					
GIN PLATE, depth (exclusive of flange)	33	9 33	9	33	9	" Attached to outside plating with Angle					
and thickness						BILGE STRINGER Angles					
Angles	4 4	9 4 4	9	4 4	9	" Bulb Plate, for					
ER BOTTOM PLATING, breadth and	60	10 60	10	60	10	" Intercoastal Plate, for					
thickness of Middle Line Strake						" Attached to outside plating with Angle					
" thickness in Engine and Boiler space						SIDE STRINGER Angles					
Remainder in Holds						" Bulb or Intercoastal Plate, for					
MS, Spar or Awning Deck, Single Angle	9 3	12 9 3	12	9 3	12	" Attached to outside plating with Angle					
Bulb Angle, Plate or Tee Bulb						Spar, or Awning Deck Stringer Plates,	53 11	53 11			
Angles on upper edge						breadth and thickness					
Average space	28	12 28	12	28	12	" Angle on ditto	4 x 4 9	4 x 4 9			
MS, Main Deck, Single Angle, Bulb	12 3 1/2	10 3 1/2	10	3 1/2	10	" Tie Plates, fore and aft, outside Hatchways					
Angle, Plate or Tee Bulb						" Diagonal Tie Plates, No. of prs.					
Angles on upper edge						" Deck, * Iron or Steel, for whole lng.	7 7/8	7 7/8			
Average space						" Wood Deck, Material & thickness					
MS, Lower Deck, Single Angle, Bulb						Main Deck Stringer Plate, breadth & thickness	60 12	60 12			
Angle, Plate or Tee Bulb						" Angles on ditto, No. 2	4 x 4 9	4 x 4 9			
Angles on upper edge						" Tie Plates, outside Hatchways at centre	34 10	34 10			
Average space						" Diagonal Tie Plates, No. of prs.					
MS, Hold, or Orlop, Plate or Tee Bulb						" Deck, * Iron or Steel, for					
Angles on upper edge						" Wood Deck, Material & thickness					
Average space						Lower Deck Stringer Plates, br'dth & thickn's					
MS, Poop Deck, Angle, Bulb Angle, Plate	6 3	9 6 3	9	6 3	9	" Angles on ditto, No.					
or Tee Bulb						" Tie Plates, outside Hatchways					
Angles on upper edge						" Deck, * Material and thickness					
Average space						Hold, or Orlop Stringer Plate, br'dth & thekn's					
MS, Bridge Deck, Angle, Bulb Angle, Plate	7 3	10 7 3	10	7 3	10	" Angles on ditto, No.					
or Tee Bulb						" Tie Plates, outside Hatchways					
Angles on upper edge						" Deck, Material and thickness					
Average space						Poop Deck Stringer Plate, breadth & thickness	Iron 5 1/2	5 1/2			
MS, Foredeck, Angle, Bulb Angle, Plate	6 3	9 6 3	9	6 3	9	" Angles on ditto	3 1/2 x 3 1/2 8	3 1/2 x 3 1/2 8			
Plate or Tee Bulb						" Tie Plates	Iron 5 1/2	5 1/2			
Angles on upper edge						" Deck, Material and thickness					
Average space						Bridge Deck Stringer Plate, br'dth & thickness	50 8	50 8			
LARS, In tween Deck, size and spacing	28 56	28 56	28 56	28 56	28 56	" Angle on ditto	3 1/2 x 3 1/2 9	3 1/2 x 3 1/2 9			
" Hold						" Tie Plates	Iron 5 1/2	5 1/2			
" Quarter, tween Deck						" Deck, Material and thickness					
" in Hold In way of hatchways						Forecastle Deck Stringer Plate, br'dth & th'kns	3 1/2 x 3 1/2 8	3 1/2 x 3 1/2 8			
B-FRAMES, In Fore Body, No. and spacing	7 18 24	9 18 24	9 18 24	9 18 24	9 18 24	" Angle on ditto	3 1/2 x 3 1/2 8	3 1/2 x 3 1/2 8			
" br'dth. & thickness						" Tie Plates	Iron 5 1/2	5 1/2			
" No. of Side Stringers	3 18 24	11 3 18 24	11 3 18 24	11 3 18 24	11 3 18 24	" Deck, Material and thickness					
WEB FRAMES, In E. & B. Space, No. & spacing	5 18 24	9 18 24	9 18 24	9 18 24	9 18 24	BULKHEADS.					
" br'dth. & thickness						Number.					
WEB FRAMES, In After Body, No. and spacing	7 18 24	9 18 24	9 18 24	9 18 24	9 18 24	In Vessel.					
" br'dth. & thickness						Per Rule.					
" No. of Side Stringers	3 18 24	11 3 18 24	11 3 18 24	11 3 18 24	11 3 18 24	Thickness.					
" Size of Angles Tee Bars to Web Frames	6 4	12 6 4	12 6 4	12 6 4	12 6 4	Horizontal.					
BRACKET PLATES to Stringers between	18 9 18	9 18	9 18	9 18	9 18	Vertical.					
Web Frames, depth and thickness						Inches.					
						Spacing					
						Single or Double Frames.					
						Height up.					



PLATING.							RIVETING.											
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		Lower EDGES.				BUTTS.							
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing or. to cr.		Diam.	Spacing or. to cr.	Breadth.	Thick-ness.	Breadth.	For what Length.	
	Inches.	1/16ths 20ths	30ths 20ths	40ths 20ths	Inches.	1/16ths 20ths			Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.	
FLAT PLATE KEEL .....	48	21	13	13	48	21	Double	6	1 1/4	4	Double whole	1 1/2	3 1/4	19 1/2	13	✓	✓	
(If Bar Keel, state Riveting)	66	13	12	12	66	13					Reple. 1/2	2 1/2	3 1/2	✓	✓	12	Whole	
GARBOARD OR A Strake ...	66	12	9	9	66	12	"	5 1/4	1/2	3 1/2	"	"	"	✓	✓	"	"	
State actual thickness in way of Double Bottom.	66	12	10	10	66	12	"	"	"	"	"	"	"	✓	✓	"	"	
B "	66	12	10	10	66	12	"	"	"	"	"	"	"	✓	✓	"	"	
C "	66	13	10	10	66	13	"	"	"	"	"	"	"	✓	✓	"	"	
D "	66	13	10	10	66	13	"	"	"	"	"	"	"	✓	✓	"	"	
E "	67	13	10	10	67	13	"	"	"	"	"	3 1/2	"	✓	✓	"	"	
F "	70	12	10	10	70	12	"	"	"	"	"	"	"	✓	✓	"	"	
G "	72	12	10	10	72	12	"	"	"	"	"	"	"	✓	✓	"	"	
H "	60	12	10	10	60	12	"	"	"	"	"	1 1/2	"	✓	✓	"	"	
J "	72	12	10	10	72	12	"	"	"	"	"	"	"	✓	✓	"	"	
Sheer K "	40	13 to 20	10	10	40	13 to 20	"	6	1	4	"	3/4	1	4	✓	✓	14	
L "											At end of Bridge	1 1/8	4 1/2	✓	✓	16	"	
M "																		
N "																		
O "																		
P "																		
Q "																		
DOUBLING of Flat Plate Keel																		
Length and thickness of Bilges .....																		
of Sheerstrakes.																		
of Strake below																		
POOP SIDES .....				7		7	Single	3	3/4	3 1/2	Double	3/4	2 1/2	✓	✓	5	Whole	
BRIDGE SIDES .....	10					10	"	3	3/4	3 1/2	"	3/4	3 1/2	✓	✓	6	"	
FORECASTLE SIDES .....			7			7	"	3	3/4	3 1/2	"	3/4	2 1/2	✓	✓	5	"	

Manufacturer's name or trade mark of the ~~Iron or Steel~~ (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. *South Durham; Consett; Palmers; Lancashire; and Glasgow.*  
*Siemens process.*  
*Iron: - South Durham.*

*Spar or Awning* Butts, *treble* riveted for *half* length amidship.  
*Stringer Plate* Straps, *single, double or overlapped* for *whole* length amidship.  
*Main Stringer* Butts, *treble* riveted for *whole* length amidship.  
*Plate* Straps, *single, double or overlapped* for *whole* length amidship.  
 Butts of *Bilge & Side Stringers and Tie Plates*, *treble or double* riveted?  
*Inner Bottom Plating*, riveting of *Edges* *Double* *Single* Butts *Double*  
*Centre Girder Butts*, *treble* riveted *Keelson Butts*, *✓* riveted.  
*Frames*, riveted through Plates with *3/4* in. Rivets, about *5 1/2* apart.  
*Rivets*, state whether Iron or Steel *Iron*.

FRAMES extend in one length from *tank margin plate* to *deck*. (Floors flanged top and bottom.  
 REVERSED FRAMES on floors and frames extend from *Bulk angle frames*.

#### MASTS, SPARS, &c.

	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Heel.		Number.	Size.	Seams.	Butts.
LOWER MASTS....											
Fore .....	<i>Steel</i>	<i>50'-0"</i>	<i>19 1/2</i>	<i>18 1/2</i>		<i>15 1/2</i>	<i>2</i>	✓	✓	<i>Single</i>	<i>Double</i>
Main .....	"	<i>50'-6"</i>	"	"	"	"	"	✓	✓	"	"
Mizen .....	✓										
Bowsprit ✓											
Topmasts, Yards and Remainder of Spars	<i>Pine</i>										
Rigging, Material and Size, Shrouds	<i>Wire 4</i>										
Sails.	<i>One</i>	<i>Suit of</i>									
										<i>Stays</i>	<i>Wire 4 1/2</i>
											<i>Sails, and the following spare sails</i>

#### EQUIPMENT No. 37354 LETTER W. ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQ. BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
54988	1st Bower	53	-	-	Stockless			44	5	-	-	52	2	-	<i>Britannic</i>		<i>Petherton, 10-10-05,</i>
54989	2nd "	52	2	14	"			44	-	1	7	52	2	-	"	<i>P. Lykes &amp; Son</i>	<i>H. Green.</i>
54987	3rd "	44	2	8	"			39	-	1	7	44	2	-	"		
	Collective weight	150	-	22								149	2	-			
28617	Stream	14	1	-	3	2	16	15	16	3	14	14	-	-	<i>Cast steel heads tested at Dusseldorf by M. Koch.</i>		
28618	Kedge	6	-	7	1	2	7	8	5	-	-	6	-	-	<i>Ordinary.</i>	<i>P. Lykes &amp; Son</i>	<i>Sipton, 15-10-05.</i>
	2nd Kedge	✓													"	<i>Con Rd</i>	<i>C. C. Perrins</i>

#### CHAIN CABLES.

#### HAWSERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.
				Supplied.	Per Rule.									
211	270	2 1/8	10 1/2	76 1/2	573-2-12	573-2-14	270-2 1/8	<i>Steel</i>	<i>P. Lykes &amp; Son</i>	<i>11-10-05, Bradley</i>	<i>TOWLINE</i>	<i>S.W.</i>	120	4 1/2
											<i>HAWSER</i>	<i>Manila</i>	90	3 1/2
											<i>WARP</i>	<i>20ff</i>	90	7
	90	4 1/2	39				90-4 1/2						39	22
													20ff	90-7
													20ff	90-7

Boats *2 Life and 2 others.*

Pumps, Number *One* fly wheel pump connected to the steam bilge suction pipes in each compartment.

Windlass is *Clarke, Chapman & Co.*

Engine Room Skylights.—How constructed? *Steel on trunk bulkheads.*

What arrangements for deadlights in bad weather? *Bulls eyes in steel shutters.*

Coal Bunker Openings.—How constructed? *Steel coashings.* How are lids secured? *By hatch bars.* Height above deck? *12"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *On each side, 9 scuppers, and 9 ports 36" x 15".*

Ceiling in Holds, thickness and material *2 1/2" W. pine.*

Ceiling 'tween Decks, thickness and material *6 x 2 W. pine sparring.*

Cargo Hatchways.—How formed? *Of plates and angles.*

Hatches, If strong and efficient? *Solid 2 1/2"*

State size No. 1 Hatch (Forward) *25-4 x 16-0 x 48* No. 2 Hatch *25-8 x 16-0 x 45* No. 3 Hatch *25-8 x 16-0 x 48* No. 4 Hatch *25-8 x 16-0 x 33*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *2 deep web plates and 3 fore & afters.*

No. of Breasthooks *Nine*

No. of Crutches *2* *deep floors.*

Bulwarks, height above deck and description *3-6. Steel plating.*

Main Rail, material and size *Bulk angle 6 x 3*

The above is a correct description.

Surveyor's Signature *J. Thomson*

Builder's Signature (here only) *For FURNESS, WITBY & CO., LIMITED.*

Surveyor to Lloyd's Register of British & Foreign Shipping.

*J. Jackson*

Lloyd's Register Foundation



Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) 31<sup>st</sup> Jan. & 24<sup>th</sup> Feb. 1905. M. 12<sup>th</sup> April 1905. E.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed.

Is the riveted work properly closed? Yes.

Are the liners between the frames and plates solid single pieces? Yes.

to plate, &c., conform well to each other? Yes.

from the faying surfaces? Yes.

Do the holes for riveting plate to frames, butt straps, or plate

Are the rivet holes well and sufficiently countersunk in the plate and punched

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes.

General Remarks (State quality of workmanship, &c.) The workmanship throughout is good.

This vessel is built in accordance with photo. of approved midship section forwarded to London on 3<sup>rd</sup> April 1906, the approved plans attached to the 1<sup>st</sup> Entry Report on the S.S. Haverstoe, the Secretary's letters referred to above, and in general conformity with the Rules for the Class contemplated.

The watertight doors are in efficient working order.

All the upper and weather decks have been tested as required by Rule with satisfactory results.

The bottom is coated with enamel cement (Surrey, Withy & Co.), and the close ceiling has been dispensed with except under the hatchways and over the timbers, and a letter from the Builders with reference to the same is forwarded herewith.

I understand this vessel is S. H. 450<sup>0</sup> and that S. H. & Co. are working her, with the option of purchase.

Is a sister vessel to the "Apollo", Hpl. Report N<sup>o</sup> 12697

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 105 ft., F' castle 31 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

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) Spar dk. (pl. steel & pl. iron), 2 tiers of Beams & web frames.

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside By enamel cement and paint. Outside By paint.

PARTICULARS OF WATER BALLAST. State whether the Double bottom is constructed on the cellular system

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	112	245	Fore peak tank,	✓	✓
Double bottom, forward,	130 2/3	314	After peak tank,	✓	31
Double bottom, under Engines and Boilers,	51 1/2	149	Midship deep tank,	✓	✓
Double bottom, if under Engines only,	✓		Other tanks, if fitted,	✓	✓
Double bottom, if under Boilers only,	✓		(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 1995	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	1905. Aug. 25. 28. 31. Sept. 5. 7. 13. 15. 18. 21. 25. 27. 29. Oct. 3. 5. 9. 11. 13. 17. 19. 21. 24.
Date 8 <sup>th</sup> March, 1905		2nd. On the plating during the process of riveting	26. 30. Nov. 1. 3. 6. 8. 10. 13. 15. 17. 20. 22. 27. 29. 30. Dec. 1. 4. 6. 8. 11. 13. 15. 18. 19. 20. 21. 27.
Order for Ordinary Survey No. ✓		3rd. When the beams were in and fastened, and before the decks were laid	1906 Jan. 29. Feb. 5. 22. 27. Mar. 3. 14. 16. 19. 23. 26. 28. 31.
Date ✓		4th. When the ship was complete, and before the plating was finally coated or cemented	
No. 286 in builder's yard.		5th. After the ship was launched and equipped	Total No. of Visits 60

The amount of Entry Fee ..... £ 5 :  
Special Survey Fee ..... £ 116 : 14  
Travelling Expenses, if any £ :

Fees applied for,  
4. 4. 1906  
Received by me,  
5. 4. 1906

Certificate to be sent to West Hartlepool

I am of opinion this Vessel should be Classed 100 A 1, Spar Deck.  
With, or without Freeboard, as condition of Class 55-8 1/2

J. Thomson  
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute  
Character assigned

THUR. 12 APR 1906

100 A 1 (See)  
spar dk with pbs  
55-8 1/2

Lloyd's ascp 1/2 + Lmc 3.06



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W411-0133 1/2

W411-0150

Certificates Issued.  
12/4/06.