

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

No. 12719

Port of WEST HARTLEPOOL Date of completion of Report 28<sup>th</sup> Sept. 1905 Received at London Office  
Survey held at West Hartlepool Date, First Survey 28<sup>th</sup> March 1905 Last Survey 27<sup>th</sup> Sept 1905  
On the S.S. Harley Rig Schooner

TONNAGE under Tonnage Deck...  
Do. between Tonnage Dk. and 3rd. Atk. Spar or Awning Dk.  
Total under Upper Dk. 3370.63  
Do. of Poop  
Do. of Bridge House  
Do. of Forecasts  
Do. of Houses on Deck  
Do. of excess of Hatchways  
Do. above Crown of Engine Room...  
Age  
pace  
rown of  
oom...  
FEES...  
Room  
tion Spaces  
Tonnage  
Beam...  
SPAR, AWNING OR PART AWNING-DECKED VESSEL,  
or a Vessel having a continuous Shade Deck.  
CLASS 100 A  
FREET  
Half Breadth (moulded) 23.625  
Depth from upper part of keel to top of Main Deck Beams 21.708  
Girth of Half Midship Frame (as per Rule) 41.208  
1st Number 86.541  
Length 345.16  
2nd Number 29870  
Proportions Breadths to Length 7.3  
Depths to Length Main Deck to top of Keel 15.9  
Master C. E. Smith  
Year of Appointment 1905  
Built at West Hartlepool  
When built 1905 Launched 17<sup>th</sup> July  
By whom built Furness, Withy & Co. Ltd  
Owners J & C Harrison Ltd  
Managers  
Residence London  
Port belonging to London  
Destined Voyage Alexandria  
# Surveyed while Building, Afloat, & in Dry Dock

on Deck Feet. Inches. BREADTH Moulded 47 3  
ule... 345 2  
of Ship per Register, Length 347.0 breadth 47.5 depth 25.2 Spar or Awning Dk. Moulded depth, ft. 27.9 To Main Dk. Round up of Beam, ft. 11 ins.  
Main Deck.

FRAMING.	Inches in Ship.	Inches in Ship.	20ths per Rule.	Inches in Ship.	Inches in Ship.	20ths per Rule.	FORGINGS AND CASTINGS.	Inches in Ship.	Inches in Ship.	20ths per Rule.	Inches in Ship.	Inches in Ship.	20ths per Rule.	Inches in Ship.	Inches in Ship.	20ths per Rule.
Angles, or L E Bars, for 1/2 length amidships	9 1/2	3 1/2	10	9 1/2	3 1/2	10	KEEL, Bar or Side Plates, depth and thickness	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2	11 x 2 1/2
1/2 at each end	9 1/2	3 1/2	10	9 1/2	3 1/2	9	STEM, moulding and thickness	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2
way of Double Bottoms at Solid Floors	24			24			STERN-POST for Rudder do. do.	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2
at intermdt. Bkts.	24			24			" " for Propeller	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2	11 x 6 1/2
of Frames from moulding edge to edge, all fore and aft	9 1/2			9 1/2			MAIN PIECE of Rudder, diameter at head	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
ED FRAME, Angles	9 1/2			9 1/2			do. at heel	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
FRAMING, depth of girder	9 1/2			9 1/2			RUDDER, how constructed	Single plate as per approved plan								
depth and thickness of Floor Plate	9 1/2			9 1/2			Can the Rudder be unshipped afloat?	Yes								
mid-line for 1/2 length amidships	41	9	41	9			KEELSONS AND STRINGERS.									
way of Engines and Boilers	41	9	41	9			CENTRE LINE KEELSON, Vertical Plate above									
thickness at the ends of vessel	41	9	41	9			floors, Through Plate, or Intercostal Plate									
depth at 1/2 the half-bdth. as per Rule	41	9	41	9			" Rider Plate									
weight extended at the Bilges	41	9	41	9			" Bulb Plate to Intercostal Keelson									
S & BRACKETS, in Cell Dble Bottoms	41	9	41	9			" Horizontal Plates on Floors									
Distance apart	41	9	41	9			" Angles									
ED GIRDER, in Double bottom, depth	41	9	41	9			SIDE KEELSON, Angles									
and thickness	41	9	41	9			" Bulb or Plate above floors, for									
" Angles, Top	41	9	41	9			" Intercostal Plate, for									
" Bottom	41	9	41	9			" Attached to outside plating with Angle									
RODERS, number and thickness	41	9	41	9			BILGE KEELSON, Angles									
Angles	41	9	41	9			" Bulb or Plate above floors, for									
N PLATE, depth (exclusive of flange)	41	9	41	9			" Intercostal Plate, for									
and thickness	41	9	41	9			" Attached to outside plating with Angle									
Angles	41	9	41	9			BILGE STRINGER Angles									
BOTTOM PLATING, breadth and	41	9	41	9			" Bulb Plate, for									
thickness of Middle Line Strake	41	9	41	9			" Intercostal Plate, for									
" thickness in Engine and Boiler space	41	9	41	9			" Attached to outside plating with Angle									
Remainder in Holds	41	9	41	9			SIDE STRINGER Angles									
Spar, or Awning Deck, Single Angle	41	9	41	9			" Bulb or Intercostal Plate, for whole lng.									
Bulb Angle, Plate or Tee Bulb	41	9	41	9			" Attached to outside plating with Angle									
Angles on upper edge	41	9	41	9			Spar, or Awning Deck Stringer Plates,									
average space	41	9	41	9			breadth and thickness									
Main Deck, Single Angle, Bulb	41	9	41	9			" Angle on ditto									
Angles on upper edge	41	9	41	9			" Tie Plates, fore and aft, outside Hatchways									
average space	41	9	41	9			" Diagonal Tie Plates, No. of prs.									
S, Lower Deck, Single Angle, Bulb	41	9	41	9			" Deck, * Iron or Steel, for whole lng.									
Angles on upper edge	41	9	41	9			" Wood Deck. Material and thickness									
average space	41	9	41	9			Main Deck Stringer Plate, breadth & thickness									
S, Hold, or Orlop, Plate or Tee Bulb	41	9	41	9			" Angles on ditto, No. 2									
Angles on upper edge	41	9	41	9			" Tie Plates, outside Hatchways									
average space	41	9	41	9			" Diagonal Tie Plates, No. of prs.									
S, Poop Deck, Angle, Bulb Angle, Plate	41	9	41	9			" Deck, * Iron or Steel, for whole lng.									
Angles on upper edge	41	9	41	9			" Wood Deck. Material and thickness									
average space	41	9	41	9			Lower Deck Stringer Plates, br'dth & thickn's									
S, Bridge Deck, Angle, Bulb Angle, Plate	41	9	41	9			" Angles on ditto, No.									
Angles on upper edge	41	9	41	9			" Tie Plates, outside Hatchways									
average space	41	9	41	9			" Deck, * Material and thickness									
S, Forecastle Deck, Angle, Bulb Angle, Plate	41	9	41	9			Hold, or Orlop Stringer Plate, br'dth & thickn's									
Angles on upper edge	41	9	41	9			" Angles on ditto, No.									
average space	41	9	41	9			" Tie Plates, outside Hatchways									
S, In 'tween Deck, size and spacing	41	9	41	9			" Deck, Material and thickness									
" Hold	41	9	41	9			Poop Deck Stringer Plate, breadth & thickness									
" Quarter, 'tween Dks.	41	9	41	9			" Angles on ditto									
" in Hold	41	9	41	9			" Tie Plates									
WEB-FRAMES, In Fore Body, No. and spacing	41	9	41	9			" Deck, Material and thickness									
" br'dth. & thickness	41	9	41	9			Bridge Deck Stringer Plate, br'dth & thickness									
" No. of Side Stringers	41	9	41	9			" Angle on ditto									
WEB-FRAMES, In E. & B. Space, No. & spacing	41	9	41	9			" Tie Plates									
" br'dth. & thickness	41	9	41	9			" Deck, Material and thickness									
WEB-FRAMES, In After Body, No. and spacing	41	9	41	9			Forecastle Deck Stringer Plate, br'dth & th'kns									
" br'dth. & thickness	41	9	41	9			" Angle on ditto									
" No. of Side Stringers	41	9	41	9			" Tie Plates									
" Size of Angles or Tee Bars to Web Frames	41	9	41	9			" Deck, Material and thickness									
BRACKET PLATES to Stringers between	41	9	41	9			Are the outside Plates doubled two spaces of Frames in length									
Web Frames, depth and thickness	41	9	41	9												



PLATING.						RIVETING.											
STRAKES.	AS IN SHIP.			PER RULE OR AS APPROVED		LOWER EDGES.						BUTTS.					
	AMIDSHIP.			AMIDSHIP.		BUTTS.						BUTTS.					
	Breadth.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to center.	Rivets.	Double or Treble and for what length.	Diam.	Spacing or to center.	Rivets.	Double or Treble and for what length.	Straps.	If Lapped.
FLAT PLATE KEEL	48	20	13	48	20	Double	6	1	4	3 1/2	Whole	6	1	4	3 1/2	12	Whole
GARBOARD OR A/Strake	64	13	12	64	13	"	5 1/4	3	3 1/2	"	"	"	"	"	"	"	"
B/V	64	11	9	64	11	"	"	"	"	"	"	"	"	"	"	"	"
C/V	63	11	9	63	11	"	"	"	"	"	"	"	"	"	"	"	"
D/V	70	12	9	70	12	"	"	"	"	"	"	"	"	"	"	"	"
E/V	59	12	9	59	12	"	"	"	"	"	"	"	"	"	"	"	"
F/V	64	12	9	64	12	"	"	"	"	"	"	"	"	"	"	"	"
G/V	64	12	9	64	12	"	"	"	"	"	"	"	"	"	"	"	"
H/V	65	12	9	65	12	"	"	"	"	"	"	"	"	"	"	"	"
J/V	59	14	9	59	14	"	"	"	"	"	"	"	"	"	"	"	"
K/V	54	13	10	54	13	"	6	1	4	"	"	"	"	"	"	"	"
L/V																	
M/V																	
N/V																	
O/V																	
P/V																	
Q/V																	
DOUBLING OF Flat Plate Keel																	
Length and thickness of Bilges																	
Length and thickness of Sheerstrakes																	
Length and thickness of Strake below																	
POOP SIDES	9	7	7	7	7	Single	3	3/4	3	Double	3/4	25	3	25	3	5	Whole
BRIDGE SIDES						"	"	"	"	"	"	"	"	"	"	"	"
FORECASTLE SIDES						"	"	"	"	"	"	"	"	"	"	"	"

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; Hammer Works; and Steel Co. of Scotland.  
Siemens process.  
Iron: - South Durham.

FRAMES extend in one length from trunk margin plate to deck. (Floor planked top & bottom.)  
 REVERSED FRAMES on floors and frames extend from built angle frames.

#### MASTS, SPARS, &c.

	Material.	Total Length	DIAMETER AND THICKNESS.		Head.	No. of Plates in round.	ANGLES.		Riveting.
			At Partners.	Heel.			Number.	Size.	
LOWER MASTS...	Fore .....	50-0	19-30	15-50	15-50	2	-	-	Single. Double.
	Main .....	50-9	"	"	"	2	-	-	"
	Mizen .....	"	"	"	"	"	-	-	"
Bowsprit									
Topmasts, and Remainder of Spars									
Rigging, Material and Size, Shrouds									
Sails.	One	Suit of							

#### EQUIPMENT No. 36908 LETTER in New Table, 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.	Cwts.	qrs.	Tons.	cwts.	Cwts.	qrs.			
27742	1st Bower	53	2	53	2	44	10	52	2	Britannia	R. Lykes & Co. Ltd.	28.4.05. Sipton
27873	2nd "	51	3	51	3	43	9	52	2	"	"	28.4.05. Sipton
27871	3rd "	44	2	44	2	38	15	44	2	"	"	28.4.05. Sipton
5208	Stream	14	1	14	1	15	16	14	1	Common	R. Lykes & Co. Ltd.	28.4.05. Sipton
5209	Kedge	6	1	6	1	8	10	6	1	"	"	28.4.05. Sipton
	2nd Kedge											

#### CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate, Tons.	WEIGHT OF CHAIN CABLE		Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire, Per Rule.	Fathoms and Size Per Rule.
				Supplied.	Per Rule.								
28914	44 1/2	2 1/2	10 1/2	72-1-1	72-1-1	Steel	R. Lykes & Co. Ltd.	28.4.05. Sipton	Steel	44 1/2	2 1/2	398	120-4 1/2
2529	45	"	"	93-2-8 1/2	93-2-8 1/2	"	"	28.4.05. Sipton	"	45	"	"	120-4 1/2
4668	180 1/2	"	"	387-0-14	387-0-14	"	"	28.4.05. Sipton	"	180 1/2	"	"	120-4 1/2
270	90	4 1/2	39	572-3-13	572-3-13	"	"	28.4.05. Sipton	"	90	4 1/2	"	120-4 1/2

#### HAWSERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Test per Certificate, Tons.	WEIGHT OF CHAIN CABLE		Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire, Per Rule.	Fathoms and Size Per Rule.
				Supplied.	Per Rule.								
28914	44 1/2	2 1/2	10 1/2	72-1-1	72-1-1	Steel	R. Lykes & Co. Ltd.	28.4.05. Sipton	Steel	44 1/2	2 1/2	398	120-4 1/2
2529	45	"	"	93-2-8 1/2	93-2-8 1/2	"	"	28.4.05. Sipton	"	45	"	"	120-4 1/2
4668	180 1/2	"	"	387-0-14	387-0-14	"	"	28.4.05. Sipton	"	180 1/2	"	"	120-4 1/2
270	90	4 1/2	39	572-3-13	572-3-13	"	"	28.4.05. Sipton	"	90	4 1/2	"	120-4 1/2

Boats 2 life and 2 others.  
 Pumps, Number One wheel pump connected to the stern bilge suction pipe in each compartment.  
 Windlass is Emerson, Walker & Thompson Bros.  
 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 coverings. 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, 1 scupper, and 10 ports 36" x 15"  
 Ceiling in Holds, thickness and material 2 1/2" p. bar. pine. Ceiling 'tween Decks, thickness and material 6" x 2" p. bar. pine.  
 Cargo Hatchways. - How formed? Of plates and angles. Hatches, If strong and efficient? 3-4-2 1/2"  
 State size No. 1 Hatch (Forward) 22-0 x 16-0 x 30 No. 2 Hatch 34-0 x 18-0 x 30 No. 3 Hatch 30-0 x 18-0 x 30 No. 4 Hatch 24-0 x 18-0 x 30  
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 1 1/4" two deep web plates and 3 fore & afters. Nos 2 & 3 three deep web plates and 3 fore & afters.  
 Bulwarks, height above deck and description 3-6" steel plating. Main Rail, material and size Bulwark 6" x 3"  
 The above is a correct description.  
 Builder's Signature (here only) V. Jackson Surveyor's Signature Jo. Thomson  
 For FURNESS, WITHEY & CO., LIMITED. Surveyor to Lloyd's Register of British & Foreign Shipping.

Correspondence. - State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) 1905: - 7th, 9th, 11th, 13th, 14th, 23rd Jan; 11th May and 8th July. M. 29th April 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.

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 the approved midship section forwarded to London on 27th Sept. 1905, the accompanying plans (9 in. 1/2), 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 & weather decks have been tested as required by Rules with satisfactory results.

The bottom is coated with enamel cement (Sarnes, Withy & Co.); the ceiling on top of inner bottom has been dispensed with except in way of the hatchways, and a letter from the Owners approving of the same is forwarded herewith.

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

PARTICULARS FOR RECORD in the REGISTER BOOK. - Length of Poop 30 ft., R.Q.D. or Break ft., Bridge Dk. 10 1/2 ft., F'castle 3 1/4 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (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) 1 Dk. (Steel) & Spar Dk. (pl. steel & iron), 2 tiers of beams & deep framing.

Official No. 283; Signal Letters

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

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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft.	114	254	Fore peak tank.		
Double bottom, forward.	142	376	After peak tank.		29
Double bottom, under Engines and Boilers.	44	124	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. <u>1964</u>	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	Total No. of Visits <u>59</u>
Date <u>22nd Dec 1905</u>		2nd. On the plating during the process of riveting	
Order for Ordinary Survey No. <u>283</u>	Dates of Surveys held while building as per Section 18.	3rd. When the beams were in and fastened, and before the decks were laid	
Date <u>28th Dec 1905</u>		4th. When the ship was complete, and before the plating was finally coated or cemented	
No. <u>283</u> in builder's yard.		5th. After the ship was launched and equipped	

The amount of Entry Fee. .... £ 6 : : Fees applied for, 29.9.1905  
 Special Survey Fee. .... £ 110 : : Received by me, 29.9.1905  
 Travelling Expenses, if any £ 0 : :  
 I am of opinion this Vessel should be Classed 100 A1. Spin Deck  
 without Freeboard, as condition of Class

Committee's Minute TUES. 3 OCT 1905  
 Character assigned 100 A1  
Spur dk  
 Surveyor to Lloyd's Register of British and Foreign Shipping. Jo. Thomson

Lloyds axb O W + Lmb 9.03  
Wise Spl