

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

No. 13130

State if Report is also sent on the Machinery of the Vessel. *Yes*
Port of *WEST HARTLEPOOL*. Date of completion of Report *21st Nov. 1906* Received at London Office *SAT NOV 24 1906*
Survey held at *West Hartlepool* Date, First Survey *11 June, 1906* Last Survey *20th Nov. 1906*
On the *S.S. Ethel* Rig *Schooner*

TONNAGE under Tonnage Deck... *3592.17*
Do. between Tonnage Dk. and 2nd, 4th, Spar or Awning Dk.
Total under Upper Dk. *3592.17*
Do. of Poop
Do. of Bridge House
Do. of Forecasts
Do. of Houses on Deck
Excess of Hatchways
Above Crown of
gine Room...
s Tonnage *3808.58*
Crew Space *61.17*
Above Crown of
gine Room...
AGE FOR FEES... *3681.19*
Engine Room *1218.75*
Navigation Spaces *43.62*
ster Tonnage *2485.04*
ut on Beam...

SPAR, AWNING OR PART AWNING-DECKED VESSEL,
or a Vessel having a continuous Shade Deck.
CLASS *100 A*
FEET.
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 *304.00*
Proportions—Breadths to Length *7.22*
Depths to Length—Main Deck to top of Keel *14.19*
Destined Voyage *India*

Master *R. B. Blacklin*
Year of Appointment *1906*
Built at *West Hartlepool*
When built *1906* Launched *3rd Oct.*
By whom built *Furness, Withy & Co. Ltd.*
Owners *Bennetts & Co.*
Managers
(Where necessary to be entered in Reg. Book.)
Residence *Lerinsby*
Port belonging to *Lerinsby*
Surveyed while Building, Afloat, & in Dry Dock

Length on Deck per Rule... *338.2* Feet. Inches. BREADTH—Moulded... *46.10* Feet. Inches. DEPTH, top of Floors to Spar... *27.4* Feet. Inches. Dk. Beams... *42.10* Power of Engines... *12* No. of Decks with flat laid... *One* No. of Tiers of Beams... *Two*
Dimensions of Ship per Register, Length *340.0* breadth *47.1* depth *27.4* Spar... *22* Moulded depth, ft. *22* ins. *10* To Main Dk. Round up of Beam, Main Dk. *12* ins. Main Deck. " " *22* ins. *10* Spar.

FRAMING.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
ME, Angles, on <i>E</i> or <i>L</i> Bars, for $\frac{1}{2}$ length amidships	7	3 $\frac{1}{2}$	12	7	3 $\frac{1}{2}$ 12
o. for $\frac{1}{2}$ at each end	7	3 $\frac{1}{2}$	11	7	3 $\frac{1}{2}$ 11
o. in way of Double Bottoms at Solid Floors	<i>Floors flanged top and bottom.</i>				
" " at intermdt. Bkts.	7	3 $\frac{1}{2}$	11	7	3 $\frac{1}{2}$ 11
ance of Frames from moulding edge to moulding edge, all fore and aft	28			28	
VERSED FRAME, Angles					
EP FRAMING, depth of girder					
ORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships					
" in way of Engines and Boilers					
" thickness at the ends of vessel					
" depth at $\frac{1}{2}$ the half-bdth. as per Rule					
" height extended at the Bilges					
ORS & BRACKETS, in Cell Dble Bottoms	41		9	41	9
" Distance apart	41	28		28	
TRE GIRDER, in Double bottom, depth and thickness	41		10	41	10
" Angles, Top	4	4	9	4	4 9
" " Bottom	4	4	12	4	4 12
E GIRDERS, number and thickness	1		9	1	9
" Angles	3 $\frac{1}{2}$	3 $\frac{1}{2}$	8	3 $\frac{1}{2}$	3 $\frac{1}{2}$ 8
GIN PLATE, depth (exclusive of flange) and thickness	33		9	33	9
" Angles	4	4	9	4	4 9
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	60		10	60	10
" thickness in Engine and Boiler space			20		20
" Remainder in Holds			8		8
MS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9	3	12	9	3 12
" Angles on upper edge					
Average space		28			28
MS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	12		12	12	12
" Angles on upper edge	3 $\frac{1}{2}$	3 $\frac{1}{2}$	10	3 $\frac{1}{2}$	3 $\frac{1}{2}$ 10
Average space		56			56 and as per profile
MS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb					
" Angles on upper edge					
Average space					
MS, Hold, or Orlop, Plate or Tee Bulb					
" Angles on upper edge					
Average space					
MS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	6	3 9
" Angles on upper edge					
Average space		28			28
MS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	10	7	3 10
" Angles on upper edge					
Average space		28			28
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	6	3 9
" Angles on upper edge					
Average space		28			28
PILLARS, in 'tween Deck, size and spacing	<i>Middle line grown division bulkhead.</i>				
" Hold					
" Quarter					
" in Hold	<i>In way of hatchways.</i>				
WEB FRAMES, in Fore Body, No. and spacing	5		17	5	17
" brdth. & thickness	18		9	18	9
" No. of Side Stringers	3		18	3	18
WEB FRAMES, in E. & B. Space, No. & spacing	5		17	5	17
" brdth. & thickness	18		9	18	9
WEB FRAMES, in After Body, No. and spacing	7		18	7	18
" brdth. & thickness	18		9	18	9
" No. of Side Stringers	3		18	3	18
" Size of Angles, Tee Plates to Web Frames	6	4	12	6	4 12
BRACKET PLATES to Stringers between Web Frames, depth and thickness	18		9	18	9

FORGINGS AND CASTINGS.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	11	2 $\frac{1}{2}$		11	2 $\frac{1}{2}$
STEM, moulding and thickness	11	6 $\frac{1}{2}$		11	6 $\frac{1}{2}$
STERN-POST for Rudder do. do.	11	6 $\frac{1}{2}$		11	6 $\frac{1}{2}$
" " for Propeller	11	6 $\frac{1}{2}$		11	6 $\frac{1}{2}$
MAIN PIECE of Rudder, diameter at head do. at heel	9 $\frac{1}{2}$			9 $\frac{1}{2}$	
RUDDER, how constructed	<i>Single plate as approved.</i>				
Can the Rudder be unshipped afloat?	<i>Yes.</i>				
KEELSONS AND STRINGERS.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate					
" Rider Plate					
" Bulb Plate to Intercoastal Keelson					
" Horizontal Plates on Floors					
" Angles					
SIDE KEELSON, Angles					
" Bulb or Plate above floors, for lng.					
" Intercoastal Plate, for lng.					
" Attached to outside plating with Angle					
BILGE KEELSON, Angles					
" Bulb or Plate above floors, for lng.					
" Intercoastal Plate, for lng.					
" Attached to outside plating with Angle					
BILGE STRINGER Angles					
" Bulb Plate, for lng.					
" Intercoastal Plate, for lng.					
" Attached to outside plating with Angle					
SIDE STRINGER Angles					
" Bulb or Intercoastal Plate, for lng.					
" Attached to outside plating with Angle					
Spar, or Awning Deck Stringer Plates, breadth and thickness	53	11		53	11
" Angle on ditto	4	4	9	4	4 9
" Tie Plates, fore and aft, outside Hatchways					
" Diagonal Tie Plates, No. of prs.	7		7	7	7
" Deck * Iron or Steel, for whole lng.					
" Wood Deck. Material & thickness					
Main Deck Stringer Plate, breadth & thickness	60	13		60	13
" Angles on ditto, No. 2	4	4	9	4	4 9
" Tie Plates, outside Hatchways	34	10		34	10
" Diagonal Tie Plates, No. of prs.					
" Deck * Iron or Steel, for lng.					
" Wood Deck. Material & thickness					
Lower Deck Stringer Plates, br'dth & thckn's					
" Angles on ditto, No.					
" Tie Plates, outside Hatchways					
" Deck * Material and thickness					
Hold, or Orlop Stringer Plate, br'dth & thckn's					
" Angles on ditto, No.					
" Tie Plates, outside Hatchways					
" Deck. Material and thickness					
Poop Deck Stringer Plate, breadth & thickness	48	7		48	7
" Angles on ditto	4	4	8	4	4 8
" Tie Plates					
" Deck. Material and thickness					
Bridge Deck Stringer Plate, br'dth & thickness	50	9		50	9
" Angle on ditto	4 $\frac{1}{2}$	4 $\frac{1}{2}$	11	4 $\frac{1}{2}$	4 $\frac{1}{2}$ 11
" Tie Plates					
" Deck. Material and thickness					
Forecastle Deck Stringer Plate, br'dth & th'kns	48	7		48	7
" Angle on ditto	4	4	8	4	4 8
" Tie Plates					
" Deck. Material and thickness					
* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.					
BULKHEADS.	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
In Vessel.	Per Rule.	20ths.	Horizontal.	Vertical.	Spacing.
W.T. BULKHEADS	6	6	7.6	7 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 4 $\frac{1}{2}$	48 Double, Spar dk.
PARTITION					
LONGITUDINAL	1	6	6	4 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 4 $\frac{1}{2}$	56
Are the outside Plates doubled two spaces of Frames in length? <i>Diamond line.</i>					

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.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.
	Inches.	20ths.	20ths.	20ths.	Inches.	20ths.	20ths.	20ths.		Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.
FLAT PLATE KEEL	48	21	13	13	48	21							Whole	1	3 1/2	19	6 1/2	12	Whole
GARBOARD OR A Strake	66	13	12	12	66	13			Double	6	1	4	1/2	1/2	3 1/2	19	6 1/2	12	Whole
B "	66	12	9	9	66	12			"	5 1/2	1/2	3 1/2	"	"	"	"	"	"	"
C "	66	12	10	10	66	12			"	"	"	"	"	"	"	"	"	"	"
D "	66	13	10	10	66	13			"	"	"	"	"	"	"	"	"	"	"
E "	66	13	10	10	66	13			"	"	"	"	"	"	"	"	"	"	"
F "	67	13	10	10	67	13			"	"	"	"	"	"	"	"	"	"	"
G "	70	12	10	10	70	12			"	"	"	"	"	"	"	"	"	"	"
H "	60	12	10	10	60	12			"	"	"	"	"	"	"	"	"	"	"
J "	72	12	10	10	72	12			"	"	"	"	"	"	"	"	"	"	"
K "	40	13 to 20	10	10	40	13 to 20			"	6	1	4	"	1/2	3 1/2	19	6 1/2	14	"
L "																			
M "																			
N "																			
O "																			
P "																			
Q "																			
DOUBLING of Flat Plate Keel																			
Length and thickness of Bilges																			
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES				7		7			Single	3	1/2	3 1/2	Double	3/4	25			5	Whole
BRIDGE SIDES		10				10			Double	5 1/2	1/2	3 1/2	Treble	3/4	34			9	"
FORECASTLE SIDES			8			8			Single	3	1/2	3 1/2	Double	3/4	25			5	"

Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. *South Durham; Consett; Palmers; Frodingham; and Barnardshire. Open hearth process. Iron:—South Durham.*

Spar *Iron* (Butts, *Double* riveted for *half* length amidship.
Stringer Plate (Straps, *single, double or overlapped* for *whole* length amidship.
Main Stringer Plate (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* *Double* Butts *Double*
Centre Girder Butts, *Double* riveted *Keelson Butts*, *Double* riveted.
Frames, riveted through Plates with *1/2* 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 & bottom)*
REVERSED FRAMES on floors and frames extend from *Built angle frames*

MASTS, SPARS, &c.

	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS....	Fore	<i>Steel</i>	<i>49-0</i>	<i>19 1/2</i>	<i>30</i>	<i>18 1/2</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>Single</i>	<i>Treble</i>
	Main	<i>"</i>	<i>50-0</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>1</i>	<i>1</i>	<i>"</i>	<i>"</i>
	Mizen	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>1</i>	<i>1</i>	<i>"</i>	<i>"</i>
Bowsprit											
Topmasts, and and Remainder of Spars	<i>Pine</i>										
Rigging, Material and Size, Shrouds	<i>Wire 4</i>										
Sails.	<i>2 Trysails</i>	<i>Suit of</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.			
30331	1st Bower	53	-	-	Stockless	44	5	-	-	52	2	-	Greenwich Brip.	John Brown	Septon		
30332	2nd "	52	-	14	"	43	14	-	7	52	2	-	"	"	"	18th Aug. 1906	
30333	3rd "	44	1	14	"	38	17	-	21	44	2	-	"	"	"	J. M. Pussall.	
	Collective weight	149	2	-						149	2	-	East Steel Heads tested at Russell by J. Meyer.				
6204	Stream	14	-	-	3	2	-	15	12	2	-	14	-	Common	Brown, Kennel's	Cardiff, 18.8.06.	
6205	Kedge	6	-	7	1	2	7	8	6	-	-	6	-	"	"	L. L. Penn.	
	2nd Kedge																

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.										
6072	270	2 1/2	165.1071	577.0	11573.2	270 2 1/2	Steel Brown, Rendell.	4816, Cardiff	1st Dec. 1906	TOWLINE	3.16	120	4 1/2	39	120 4 1/2
									W. W. Penn.	HAWSE	3.16	90	3 1/2	22	90 3 1/2
										WARP	2.16	90	2 1/2	17	90 2 1/2
Stream Chain } Steel Wire ... }	90	4 1/2	39			90 4 1/2									

Boats *2 Life and 1 other*
Pumps, Number *One flywheel pump connected to steam action pipes in each compartment.*
Windlass is *Emerson, Walker & Thompson Bros* Capstan
Engine Room Skylights.—How constructed? *Steel on trunk bulkheads.*
What arrangements for deadlights in bad weather? *Bull eyes in steel shutters.*
Coal Bunker Openings.—How constructed? *Steel coaming.* 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 8 scuppers, and 8 ports 36 x 15"*
Ceiling in Holds, thickness and material *2 1/2 lb. pine* Ceiling 'tween Decks, thickness and material *Sparring 6 x 2 lb. pine*
Cargo Hatchways.—How formed? *Of plates and angles.* Hatches, If strong and efficient? *Solid 2 1/2"*
State size No. 1 Hatch (Forward) *23.4 x 15.0 x 47* No. 2 Hatch *25.8 x 15.0 x 45* No. 3 Hatch *25.8 x 15.0 x 47* No. 4 Hatch *25.8 x 15.0 x 32*
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *2 deep web plates and 3 fore and afters.*
No. of Breasthooks *Pine* No. of Crutches *2 1/2 dip. floors.*
Bulwarks, height above deck and description *3-6 Steel plating.* Main Rail, material and size *Built angle 6 x 3"*
The above is a correct description. *Stays 1 1/2 dia.*
Builder's Signature (here only). *For FURNESS, WITBY & CO., LIMITED.* Surveyor's Signature *John Thomson* Surveyor to Lloyd's Register of British & Foreign Shipping.

V. Jackson

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *22nd March*

4th May 1906 M. 11th July 1906 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

Do any rivets break into or through the seams or butts of plating? *A few*

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 20th Nov. 1906, the accompanying tracings (4 in 1"), 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.

Is a sister vessel to the "Haverstoe", Hpl. Report No. 12591

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 cement & 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,	<i>112</i>	<i>245</i>	Fore peak tank,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, forward,	<i>130 3/4</i>	<i>314</i>	After peak tank,	<input checked="" type="checkbox"/>	<i>31</i>
Double bottom, under Engines and Boilers,	<i>51 3/4</i>	<i>149</i>	Midship deep tank,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other tanks, if fitted,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(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. <i>2026</i>	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	<i>1906. June 11. 21. 28. July 3. 6. 9. 11. 13. 17. 20. 23. 25. 27. 30. Aug 1. 3. 13. 15.</i>
Date <i>16 June 1906</i>		2nd. On the plating during the process of riveting	<i>16. 18. 20. 22. 23. 24. 27. 30. Sept. 3. 5. 7. 10. 13. 17. 20. 24. 25. 26. 28. Oct. 1. 3. 12. 18.</i>
Order for Ordinary Survey No. <input checked="" type="checkbox"/>		3rd. When the beams were in and fastened, and before the decks were laid	<i>Nov. 5. 9. 13. 16. 20.</i>
Date <i>29 July</i>		4th. When the ship was complete, and before the plating was finally coated or cemented ...	
No. <i>297</i> in builder's yard.		5th. After the ship was launched and equipped	

Total No. of Visits *46*

The amount of Entry Fee£ *5* :
Special Survey Fee ...£ *11* :
Travelling Expenses, if any £ :
Fees applied for, *21. 11. 1906*
Received by me, *22. 11. 1906*

Certificate to be sent to

West Hartlepool

am of opinion this Vessel should be Classed *100 A.1, Spar Deck*
With, or without Freeboard, as condition of Class *5-8 1/2*

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

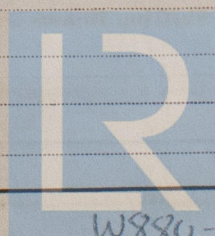
Committee's Minute

Character assigned

TUES. NOV 27 1906

100 A.1
spar dk. max. fld 5-8 1/2

Lloyd's A & B P. W + L M 6. 11. 06



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