

1st Dks., R.Q.Dk.,  
and Pt. Awng. Dk.

# STEEL STEAMER.

Received at London Office.

State if Report is also sent on the Machinery of the Vessel.

MON. AUG 10 1896

Date of completion of Report

Port of WEST HARTLEPOOL

No. 10034 Survey held at

Date, First Survey

Last Survey

4th Aug 1896

On the

Steamer

LEONIS

Rig

For Sale Schooner

TONNAGE under

Tonnage Deck

Do. of Raised Qr.

Do. of Break.

Do. of Bridge House

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

ONE DECKED VESSEL.

CLASS 100A1

FEET.

Half Breadth (moulded)

Depth from upper part of Keel to top of Main Deck Bms.

Girth of Half Midship Frame (as per Rule)

1st Number

Length

2nd Number

Proportions—Breadths to Length

Depths to Length—Main Deck to top of Keel

Destined Voyage

FEET.

Master

J. Dunstan

Year of appointment

Built at

When built

By whom built

Owners

Manager

Residence

Port belonging to

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck as per Rule. 298 4/16 BREADTH—Moulded. 42 10/16 DEPTH—Top of Floors to Main Deck Beams. 17 6 1/2 Power of Engines 226 Horse. No. of Decks with Flat laid One No. of Tiers of Beams One Two

Dimensions of Ship per Register, Length, 300.0 breadth, 43.1, depth, 17.6, Moulded Depth, ft. 19 ins. 10, Round of Beam 10 inches.

FRAMING.						FORGINGS AND CASTINGS.					
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.		Inches in Ship.	Inches per Rule Or as Approved.		Inches in Ship.	Inches per Rule Or as Approved.
FRAME, Angles, Bars, for 2 length amidships	6	3	11	6	3	11	KEEL, Bar or Side Plates, depth and thickness	10 x 2 7/8	10 x 2 7/8		
Do. for 1/2 at each end	"	"	10	"	"	10	STEM, moulding and thickness	10 x 6	10 x 6		
Do. in way of Double Bottoms at Solid Floors	"	"	10	"	"	10	STERN-POST for Rudder do. do.	10 x 6	10 x 6		
" at intermdt. Bkts.	7 1/2	3	8	6 1/2	3	8	" for Propeller	10 x 6	10 x 6		
Distance of Frames from moulding edge to moulding edge, all fore and aft	24			24			MAIN PIECE of Rudder, diameter at head...	7 1/4	7 1/4		
REVERSED FRAME Angles							do. at heel	6 1/2 x 3 1/4	6 1/2 x 3 1/4		
DEEP FRAMING, depth of girders							RUDDER, how constructed	Forged from frame, plated.			
FLOORS, depth and thickness of Floor Plate at mid-line for 2 length amidships	38	9	38	9			Can the Rudder be unshipped afloat?	Yes.			
" in way of Engines and Boilers	38						KEELSONS AND STRINGERS.				
" thickness at the ends of vessel	38						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate				
" depth at 1/2 the half breadth, as per Rule	38						" Rider Plate				
" height extended at the Bilges	38						" Bulb Plate to Intercoastal Keelson				
FLOORS & BRACKETS, in Cell Dble Bottoms	38						" Horizontal Plates on Floors				
" Distance apart	38						" Angles				
CENTRE GIRDER, in Double Bottom, depth and thickness	38	10	38	10			SIDE KEELSON, Angles				
" Angles, Top	4	4	9	4	4	9	" Bulb or Plate above floors for lng.				
" Bottom	6	4	9	6	4	9	" Intercoastal Plate for length				
SIDE GIRDERS, number and thickness	One	9	One	9			" Attached to outside plating with Angle				
" Angles 3 each side in Engine room	One	9	One	9			BILGE KEELSON, Angles				
MARGIN PLATE, depth (exclusive of flange) and thickness	27	8	24	8			" Bulb or Plate above floors for len.				
" Angles	4	3	8	3 1/2	3 1/2	8	" Intercoastal Plate for length				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	27	6	9 1/6	27	6	9 1/6	" Attached to outside plating with Angle				
" thickness in Engine and Boiler space	"		8 1/6	"		8 1/6	BILGE STRINGER Angles				
" Remainder in Holds	"		7 1/6	"		7 1/6	" Bulb Plate for length				
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate, Tee Bulb	10		10	10		10	" Intercoastal Plate for length				
" Angles on Upper Edge							" Attached to outside plating with Angle				
" Average space	48			48			SIDE STRINGER Angles				
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Bulb or Intercoastal Plate for lng.				
" Angles on Upper Edge							" Attached to outside plating with Angle				
" Average space							Main and Raised Quarter Deck Stringer Plate, breadth and thickness	75	11	75	11
BEAMS, Hold, Plate or Tee Bulb	11 1/2		11	11 1/2		11	" Angle on ditto	4 1/2 x 4 1/2	10	At Quarter and	
" Angles on Upper Edge	5	4	9	5	4	9	" Tie Plates fore & aft outside Hatchways	4 x 4	9	At main dx.	
" Average space	As approved.						" Diagonal Tie Plates on Bms, No. of Pairs				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Main Dk* Iron or Steel for 3/4 lng.	Steel 8 x 9	Steel 8 x 9		
" Angles on Upper Edge							" R. Q. Dk* Iron or Steel for 1/4 lng.	Iron 7 1/6	Iron 7 1/6		
" Average space							" Wood Deck, Material and thickness				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	8	6	3	8	Lower Deck Stringer Plate, breadth and thickness	75	9	75	9
" Angles on Upper Edge							" Angles on ditto	4 x 4	9	4 x 4	9
" Average space	24			24			" Tie Plates outside Hatchways				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Deck* Material and thickness	Iron 5 1/6	Iron 5 1/6		
" Angles on Upper Edge							Hold Stringer Plate				
" Average space							" Angles on ditto				
PILLARS, In 'tween Decks, Size and Spacing	5/8	Stul grain division					Roop Deck Stringer Plate, breadth & thickness				
" Hold	3 7/8	4 ft. apart	3 7/8	4 ft.			" Angle on ditto				
" Quarter 'tween Dks							" Tie Plates				
" in Hold							" Deck, Material and thickness				
WEB FRAMES, In Fore Body, No. and Spacing	8	5 to 6 frame spaces					Forecastle Deck Stringer Plate, breadth & thickness				
" Brdth. & Thickness	15	8	15	8			" Angle on ditto				
" No. of Side Stringers	Two						" Tie Plates				
WEB FRAMES, In E. & B. Space, No. & Spacing	4	4 frame spaces					" Deck, Material and thickness				
" Brdth. & Thickness	15	8	15	8			Bridge Deck Stringer Plate, breadth & thickness				
WEB FRAMES, In After Body, No. and Spacing	9	4 to 6 frame spaces					" Angle on ditto				
" Brdth. & Thickness	16	8	16	8			" Tie Plates				
" No. of Side Stringers	Three	in after hold.					" Deck, Material and thickness				
" Size of Angles on Tee Bars to Web Frames	3 1/2	3	8	3 1/2	3	8	W. T. BULKHEADS.				
WEB FRAMES, Depth and Thickness							In Vessel.				
							Per Rule.				
							Thickness.				
							Horizontal.				
							Vertical.				
							Spacing.				
							Single or Double Frames.				
							Height up.				



**PLATING.**

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		RIVETING.				BUTTS.			
	AMIDSHIP.		FORWARD.		AFT.		EDGES.		RIVETS.		STRAPS.		IF LAPPED.	
	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.
FLAT PLATE KEEL	42	16	12	12	42	16	Double	6	1	4	19	19		
GARBOARD OF A STRAKE	50	12	11	12	50	12	Double	6	1	4	19	19		
B	54	11	9	11	54	11	Double	6	1	4	19	19		
C	50	11	9	11	50	11	Double	6	1	4	19	19		
D	54	11	9	11	54	11	Double	6	1	4	19	19		
E	42	12	10	12	42	12	Double	6	1	4	19	19		
F	48	12	10	12	48	12	Double	6	1	4	19	19		
G	41	11	9	11	41	11	Double	6	1	4	19	19		
H	46	11	9	11	46	11	Double	6	1	4	19	19		
J	41	11	9	11	41	11	Double	6	1	4	19	19		
K	47	11	9	11	47	11	Double	6	1	4	19	19		
Main Sheer	50	13	10	10	50	13	Double	6	1	4	19	19		
Port Side Sheer	62	11	7	8	62	11	Double	6	1	4	19	19		
N														
O														
P														
DOUBLING OF PLATE KEEL	Main Sheerstrake doubled 20 ft. at beam													
Length and thickness of Sheerstrakes.	Main Sheerstrake doubled 20 ft. at beam													
Length and thickness of Strake below	Main Sheerstrake doubled 20 ft. at beam													
RAISED QUARTER DECK SIDES	1168													
BRIDGE SIDES														
FORECASTLE SIDES														
LENGTHS OF PLATING	16 to 24 ft.													

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, outside Plating, &c.:

*Mitchell & Co., Connell, Robinson & Vaughan & Co., 101 Portland St. S. E. Boston, Mass. U.S.A.*

*Palmer & Co., 101 Portland St. S. E. Boston, Mass. U.S.A.*

*101 Portland St. S. E. Boston, Mass. U.S.A.*

*101 Portland St. S. E. Boston, Mass. U.S.A.*

FRAMES extend in one length from *2nd side* to *gunwale*

REVERSED FRAMES on floors and frames extend from

**MASTS, SPARS, &c.**

LOWER MASTS	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round	ANGLERS.	RIVETING.
			At Partners.	Heel.	Hounds.	Head.			
Fore	Steel	54.9	22 x 7/16	17 1/2 x 5/8	16 1/2 x 5/8	16 x 5/8	2	✓	Single
Main	Steel	55.9	21 x 7/16	16 1/2 x 5/8	16 x 5/8	16 x 5/8	2	✓	Single
Mizzen	Steel	55.9	21 x 7/16	16 1/2 x 5/8	16 x 5/8	16 x 5/8	2	✓	Single

Topmasts, *wood* and Remainder of Spars *wood topmasts (telescopic)*

Rigging, Material and Size, Shrouds *3 1/2" gal. iron wire*

Sails, *one* Suit of *Stays 4 1/2" gal. iron wire*

**EQUIPMENT No. 26820 LETTER S** **TONNAGE FOR TRAWLERS** **U.D.K.**

**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.	lbs.	Cwts.	lbs.	Tons.	Cwts.	lbs.	Cwts.				lbs.
29449	1st Bower	40	3 71			36	8 0	14	0 0	Byers patent	W. Byers	29.4.96	
29510	2nd "	40	1 01			35	18 2	0	0 0	Steele	W. Byers	7.5.96	
17854	3rd "	34	2 22			32	3 3	0	0 0	Drop lat certificate supplied for cast steel head.	W. Byers	14.4.96	
	Collective weight	115	3 11										
29312	Stream	10	2 71	2	2 11	12	10 3	2 11	10	2 0	Common	W. Byers	15.4.96
29313	Kedge	5	2 01	1	1 14	7	16 1	0 5	1 0		W. Byers	15.4.96	
	2nd Kedge												

**CHAIN CABLES.**

Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.
				Supplied.	Per Rule.				
12086	241	1 1/8	82 1/2	399.1	397.3	240	1 1/8	Steel line	W. Byers
11960	76	1 1/8	34 1/2	22 1/2	22 1/2	75	1 1/8	Steel line	W. Byers

**HAWSERS AND WARPS.**

Number of Certificate.	Fathoms.	Size.	Test per Certificate.	Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.		
								12086	241
11960	76	1 1/8	34 1/2	22 1/2	22 1/2	75	1 1/8	Steel line	W. Byers

**Boats** *2 life boats & 2 others.*

**Pumps, Number** *6 hand pumps*

**Windlass is** *Emerson, Walker & Thompson Bros.*

**Engine Room Skylights.**—How constructed? *Iron on iron casing 7 ft. high.*

What arrangements for deadlights in bad weather? *Thin glass bullheads in iron hinged cover.*

**Coal Bunker Openings.**—How constructed? *2 Hatches each side* How are lids secured? *Bars & tarpaulins* Height above deck? *1/2"*

**Number of Scuppers,** and number and dimensions of **Freeing Ports, &c.** *2 Scuppers, 4 Ports (30 x 15) each side of Quarter deck.*

**Ceiling in Holds,** thickness and material *2 1/2" w.p.*

**Ceiling 'tween Decks,** thickness and material *2" battens*

**Cargo Hatchways.**—How formed? *Steel plate coamings*

**State size No. 1 Hatch (Forward)** *19' 10" x 13' 10" x 24"* **No. 2 Hatch** *24' 0" x 13' 10" x 24"* **No. 3 Hatch** *23' 10" x 13' 10" x 24"* **No. 4 Hatch** *23' 10" x 13' 10" x 24"*

**Number of Web Plates, Shifting Beams, and Fore and Afters** to each Hatch *1 Web in No. 1, 2 Webs in No. 2, 3 & 4 Hatchways.*

**3 Mr. Kapers in each Hatchway.**

**Bulwarks,** height above deck and description *Steel plate 36" above deck at Quarter deck. Main Rail, material and size 6" built angle at Q. deck.*

The above is a correct description.

Builder's Signature *For FURNESS, WITBY & CO., LIMITED.*

Surveyor's Signature *Chas. Fowling.*

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

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

1896—*Jan. 2nd, March 9th, 19th, 31st, April 15th, 21st, May 4th, July 7th, Aug. 5th*

**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*

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c, conform well to each other? *Yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? *Yes*

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

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

**General Remarks** (State quality of workmanship, &c.)

*The workmanship is good & the vessel has been constructed in accordance with the approved plans (4 in No.) which together with the Docking Report are attached hereto. The forepeak has been filled with water to height of load line, & collision bulkhead found good. The iron weather decks have been tested by hose & found good. The land pumps have been tried & found to work satisfactorily. Tunnel also tested by hose found tight.*

**Drawings.**

*Midship Section for 6.8.96.*

*Profile*

*Pumping arrangement*

*Stut masts.*

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

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop! *✓* ft., R.Q.D. *✓* ft., *275 ft.*, F'castle *✓* ft.

(in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated

*Cast Quarter deck & East Afterside deck connected.*

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 deck (iron & steel) part Afterside deck (iron) & web frames*

Official No. *106951*; Signal Letters

How are the surfaces preserved from oxidation? Inside *Portland Cement & Paint* Outside *Paint*

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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Feet.	Tons.	Feet.	Tons.	Feet.	Tons.
Double bottom, aft,	96	174.5	Fore peak tank,		
Double bottom, forward,	116	235	After peak tank,		
Double bottom, under Engines and Boilers,	20	46.5	Midship deep tank,		
Double bottom, under Engines and Boilers,			Other tanks, if fitted,		

(If necessary, furnish further information by sketch.)

*not fitted for water ballast.*

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

**Order for Special Survey No. 1651**

Date *14th March 1896*

**1st.** On the several parts of the frame, when in place, and before the plating was wrought

**2nd.** On the plating during the process of riveting.

**3rd.** When the beams were in and fastened and before the decks were laid

**4th.** When the ship was complete, and before the plating was finally coated or cemented

**5th.** After the ship was launched and equipped

*Built under Special Survey.*

*First visit, 28th July, 1896.*

*Last visit, 14th Aug., 1896.*

Total No. of Visits *63*

The amount of Entry Fee *£ 5*

Special *£ 87 11 6*

Certificate *£*

Travelling Expenses, if any *£*

Fees applied for, *7.8.1896*

Received by me, *7.8.1896*

I am of opinion this Vessel should be Classed *100A1*

With, or without Freeboard, as condition of Class *Part Afterside deck, with Freeboard*

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

**Committee's Minute** **TUES, AUG 11 1896**

**Character assigned**

*100A1 Steel*

*a ocl*

*+ 2 mcs, 96*

*pl. Afterside dk.*

*with freebd. 2.8" 2*

*15k (pl. Sll. pl. Sll.) + Web frames*

*+ pl. Afterside dk. (iron)*

**Builder's Signature** *For FURNESS, WITBY & CO., LIMITED.*

**Surveyor's Signature** *Chas. Fowling.*

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