

# IRON SHIP. 19112

No. 4086 Survey held at Montrose Date, First Survey 22<sup>nd</sup> Jan<sup>y</sup> Last Survey 22<sup>nd</sup> Aug<sup>t</sup> 1877 Rev 25/8/77

On the S. S. "Emile Eloise" Master Jules Lavallee

TONNAGE under Tonnage Deck	160.98	ONE, OR TWO DECKED, THREE DECKED VESSEL.		Built at	Montrose
Ditto of Third, Spar, or Awning Deck.	76	SPAR, OR AWNING DECKED VESSEL.		When built	1877 Launched 24 May/77
Ditto of Poop or Raised Qr. Dk.	14.86	HALF BREADTH (moulded)	10.03	By whom built	Messrs Black & Noble.
Ditto of Houses on Deck	51.39	DEPTH from upper part of Keel to top of Upper Deck Beam	10.17	Owner	E. Buisine
Ditto of Forecastle	4.41	GIRTH of Half Midship Frame (as per Rule)	18.00	Port belonging to	Gravelines
Gross Tonnage	232.76	1st NUMBER	38.20	Destined Voyage	Gravelines
Less Crew Space	9.66	1st NUMBER, if a THREE-DECKED VESSEL		If Surveyed while Building, Afloat, or in Dry Dock	while Building and afloat.
Less Engine Room	74.48	LENGTH	124.0		
Register Tonnage as cut on Beam	148.62	2nd NUMBER	4736.8		
		PROPORTIONS Breadth to Length	6.1		
		Depths to Length Upper Deck to Keel	12.1		
		Main Deck ditto			

Official Number

PLANS CASE

LENGTH on deck as per Rule	124	BREADTH Moulded	20	DEPTH top of Floors to Upper Deck Beams	9	Power of Engines	45	No. of Decks with flat laid	One
								No. of Tiers of Beams	One

Dimensions of Ship per Register, length, 124.3 breadth, 20.25 depth, 9.05

	Inches in Ship			Inches per Rule		
	Inches	16ths	Inches	Inches	16ths	Inches
<b>KEEL</b> , depth and thickness	6 3/4	3	6 3/4	1 1/4	3	6 3/4
<b>STEM</b> , moulding and thickness	6 3/4	1 1/4	6	1 1/4	5	6
<b>STERN-POST</b> for Rudder do. do.	6	2 1/2	6	2 1/2	5	6
for Propeller	6	2 1/2	6	2 1/2	5	6
Distance of Frames from moulding edge to moulding edge, all fore and aft	20					
<b>FRAMES</b> , Angle Iron, for 3/4 length amidships	3	2 1/2	3	2 1/2	5	3
Do. for 1/2 at each end	3	2 1/2	3	2 1/2	5	3
<b>REVERSED FRAMES</b> , Angle Iron	2 1/2	2 1/2	2 1/2	2 1/2	4	2 1/2
<b>FLOORS</b> , depth and thickness of Floor Plate at mid line for half length amidships	1 1/2	5	1 1/2	5	5	1 1/2
thickness at the ends of vessel	Eng. space	6	Eng. space	6	5	Eng. space
depth at 3/4 the half-bdth. as per Rule	6		5 3/4			6
height extended at the Bilges	2 1/4		2 1/4			2 1/4
<b>BEAMS</b> , Upper, Spar, or Awning Deck Single or double Ang. Iron, Plate or Tee Bulb Iron	5 1/2	3	5 1/2	3	7	5 1/2
Single or double Angle Iron on Upper edge						
Average space	40		40			40
<b>BEAMS</b> , Main, or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron						
Single, or double Angle Iron, on Upper Edge						
Average space						
<b>BEAMS</b> , Lower Deck, Hold, or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron						
Single or double Angle Iron on Upper Edge						
Average space						
<b>KEELSONS</b> Centre line, single or double plate, box, or intercostal, Plates	8 1/2	7	8 1/2	7	7	8 1/2
" Rider Plate	7 1/2	7	6 1/2	7	7	7 1/2
" Bulb Plate to Intercostal Keelson						
" Angle Irons	3	3	3	3	6	3
" Double Angle Iron Side Keelson						
" Side Intercostal Plate wash plate					4	
" do. Angle Irons						
" Attached to outside plating with angle iron						
<b>BILGE</b> Angle Irons	3	3	3	3	6	3
" do. Bulb Iron	6	6	5	5	5	6
" do. Intercostal plates riveted to plating for length	for 3/5 L.		for 3/5 Length			
<b>BILGE STRINGER</b> Angle Irons						
Intercostal plates riveted to plating for length						
<b>SIDE STRINGER</b> Angle Irons	3	3	3	3	6	3

	Inches In Ship	16ths In Ship	Inches per Rule	16ths per Rule
<b>Flat Keel Plates</b> , breadth and thickness	31	6	39	6
<b>PLATES</b> in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied	5.6.7		2 5/8	5.6
fm up. part of Bilge to lr. edge of Sh'rstrake			76	5.6
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake.	30	9	30	7
Up. or Spar Dk. Sh'rstrake, breadth & thickness	30	9	30	7
Butt Straps to outside plating, breadth & thickness	9 3/4	5.6.7.8.10	9 3/4	5.6.7.8.10
Lengths of Plating	5 ft	space	5 ft	space
Shifts of Plating, and Stringers	2		2	
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	28	7	28	7
Angle Iron on ditto	3.3	6/16	3.3	6/16
Tie Plates fore and aft, outside Hatchways	7	6	7	6
Diagonal Tie Plates on Beams No. of Pairs				
Planksheer material and scantling				
Waterways do. do.				
Flat of Upper Deck do. do.				
How fastened to Beams				
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness				
Is the Stringer Plate attached to the outside plating?				
Angle Irons on ditto, No.				
Tie Plates, outside Hatchways				
Diagonal Tie Plates on Beams, No. of pairs				
Waterways materials and scantlings				
Flat of Middle Deck do. do.				
How fastened to Beams				
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams				
Is the Stringer Plate attached to the outside plating?				
Angle Irons on ditto, No.				
Stringer or Tie Plates, outside Hatchways				
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material				
in hold do. do.				
Main piece of Rudder, diameter at head	3 1/2		3 1/2	
do. at heel	2 1/8		2	
Can the Rudder be unshipped afloat?				
Bulkheads No. 3 Thickness of				
Height up				
How secured to sides of ship				
Size of Vertical Angle Irons	2 1/2, 2 1/2, 3/8			
and distance apart	30 ins.			
Are the outside Plates doubled two spaces of Frames in length?				

Transoms, material. Knight-heads. Hawse Timbers. plates & angles

Windlass Iron Emerson and Walker's (patent)

The **FRAMES** extend in one length from Keel to anchor deck stringer, main dk. stringer, and to raised dk. stringer

The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to 6" above side str. all fore and aft before R. & Q. Dk. and 6" above side str. and gunwale alternately in main of R. & Q. Dk.

**KEELSONS**. Are the various lengths of Plates and Angle Irons properly connected? yes And butts properly shifted? yes

**PLATING**. Garboard, double riveted to Keel, with rivets 7/8 in. diameter, averaging 4 3/8 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/4 ins. from centre to centre.

Butts of one Strakes at Bilge for half length, double riveted with Butt Straps 1/16 thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. **Upper Sheerstrake**, double or single riveted.

Butts of Main Sheerstrake, double riveted for whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted whole length amidships.

Butts of Main Stringer Plate, double riveted for whole length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for whole length.

Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 9/8

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?

Waterway, how secured to Beams Gutter. (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? Knee plates. No. of Breasthooks, one Crutches, one

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Good

Manufacturer's name or trade mark, For frame angles, floor plates, shell plates & angles for beams, the Stockton Iron Co.

The above is a correct description.

Builder's Signature, W. H. W. W. Surveyor's Signature, J. H. W. W.

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

IRON 473 - 0376

**Workmanship.** Are the butts of plating planed or otherwise fitted? *not planed.*  
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *yes.*  
 Are the fillings between the ribs 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 faying surfaces? *yes.*  
 Do any rivets break into or through the seams or butts of the plating? *In a few cases at the butts.*

Masts, Bowsprit, Yards, &c., are *of wood* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *wood pole masts.*  
*Fore mast. Length Extreme 68ft. Deck to hounds 36ft. Diameter Deck 12 ins.*  
*Main " " " 62 1/2 ft. " " 37ft. " " 12 ins.*

N <sup>o</sup> .	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.		N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
								Bowers	Stream					
3	SAILS.	Chain	135	1 1/2	13-15-00	35-13	11 1/2	1	5.3.12	8.2.3.0	5 Cwt.	4 1/2	20	100
	Fore Sails,													
	Fore Top Sails,													
	Fore Topmast Stay Sails													
	Main Sails,	Hmpn Strm Cbl	90	1/2	90-16									
	Main Top Sails,	Hawser ...	40	4										
		Towlines ...	90	3	90-4									
		Warp quality	90	3 1/2										

Standing and Running Rigging *Wire & Hemp* sufficient in size and *good* in quality. She has *1-18ft* Long Boat and *1-14ft* gig.  
 The Windlass is *good & efficient* by hand or steam. Capstan *efficient* and Rudder *efficient* Pumps *efficient*.

Engine Room Skylights.—How constructed? *Iron framing on deck.* How secured in ordinary weather? *by bars & pins.*  
 What arrangements for deadlights in bad weather? *Strong lead framed lids with 6 bulls eyes on each side.*

Coal Bunker Openings.—How constructed? *Circular heads of iron secured to deck.* How are lids secured? *by clips.* Height above deck? *1-6 ins above deck.*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Two pair of scuppers and two pair of freeing ports.*

Cargo Hatchways.—How formed? *by plate Comings & angles attached to beams & fore & aft Carlines.*  
 State size *Main Hatch 13-4 x 9-0* Forehatch *6-8 x 6-0* Quarterhatch *nil.*  
 If of extraordinary size, state how framed and secured? *Shifting beams in Main Hatch.* *1-plate 10 x 6/16*  
 What arrangement for shifting beams? *Double angles on Comings.* *angles 2 1/4 x 2 1/4 x 4/16.*

Hatches, If strong and efficient? *yes.*

Order for Special Survey No.	Date	Order for Ordinary Survey No.	Date	No.	in builder's yard.	1st.	2nd.	3rd.	4th.	5th.		
356	2 <sup>nd</sup> April 77			7		On the several parts of the frame, when in place, and before the plating was wrought	On the plating during the process of riveting	When the beams were in and fastened, and before the decks were laid....	When the ship was complete, and before the plating was finally coated or cemented..	After the ship was launched and equipped	<i>especially surveyed. 1877.</i>	<i>Jan 22; Feb 5, 9, 23; Mar 13, 28; April 9, 30; May 1, 15, 30; June 12, 22; July 6, 18, 28; Aug 11, 15 and 22<sup>nd</sup>.</i>

General Remarks (State quality of workmanship, &c.) *Workmanship and Materials good.*

*This vessel has been constructed in accordance with accompanying tracings 2<sup>nd</sup>. Submitted and approved see Secty Letter. 13<sup>th</sup> Nov. 1876.*

*She has a sunk fore-castle with a water ballast tank under which has been tested with a lead of water to load line and found tight.*

*She has a bridge deck and also a raised quarter deck constructed of the scantlings & arrangements as shown on the tracings.*

*Black & White.*

State if one, two, or three, decked vessel, or if spar, or awning decked; and the lengths of poop, fore-castle, or raised quarter deck, and the length of double, or part double bottom.  
 How are the surfaces preserved from oxidation? Inside *Cemented to upper part of bilge & 3 coats of paint above.* Outside *Two coats of red lead and one of white.*

I am of opinion this Vessel should be Classed *90 A.1.*

The amount of the Entry Fee ... £ 3 : 0 : 0 is received by me, *Sho*  
 Special ... £ 11 : 3 : 0 *Aug 22<sup>nd</sup> 1877.*  
 Machinery Certificate ... : 5 : 0  
 (Travelling Expenses, if any, £ 10-15-0).

Committee's Minute *28th August, 1877.*

Character assigned *90 A.1*  
*Sho*  
*Lloyd's Register*  
*27/8/77*

