

IRON SHIPS.

Rec 30/3/54

No. *517* Survey held at *Newcastle* Date *March 25* 185*4*
 on the *Screw Schr Pioneer* Master *William John Wade*
 Tonnage Gross *517 7/10* Engine Room *139 7/10* Register *378 7/10* Built at *Newcastle*
 When Built *1854* By whom built *Palmer Brothers & Co.* Owners *General Steam Navⁿ Com^y*
 Port belonging to *London* Destined Voyage *London*
 If Surveyed Afloat or in Dry Dock *On the Slip.*

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse. No.
.....	<i>175</i>	<i>2 1/10</i>	<i>25</i>	<i>0</i>	<i>15</i>	<i>1 1/10</i>	<i>70</i>
Distance between Floors amidships.....	Feet.	Inches.	Sketch, when necessary.			Stem, if bar iron, moulding and thickness	Inches.	8ths.	Sketch, when necessary.	
" " " forward and aft	<i>1</i>	<i>3</i>				" if plate iron, breadth and thickness	<i>2 by 8 in's</i>			
" " Ribs amidships	<i>1</i>	<i>3</i>				Stern-post, if bar iron, moulding and thickness	<i>4 by 8 in's</i>			
" " " forward and aft	<i>1</i>	<i>8</i>				" " if plate iron, breadth and thickness	<i>4 by 8 in's</i>			
Floors, Size of Angle Iron, and No. / at	Inches.	Inches.	8ths			Keel, if bar iron, depth and thickness.....	<i>2 by 8</i>			
bottom of Floor Plate	<i>4 by 3</i>					" if plate iron, breadth and thickness	<i>2 by 8</i>			
" depth & thickness of Plate at mid line..	<i>18 in's</i>	<i>by 4 1/16</i>				Garboard Plates, thickness..	<i>1/2</i>			
" " " at turn of bilge	<i>5 "</i>	<i>" 7/16</i>				" to bilge " ..	<i>Best 7/16</i>			
" Size of Reversed Angle Iron, and	<i>2 1/2 by 2 1/2</i>					Bilge " ..	<i>Staffordshire 7/16</i>			
No. / at top of Floor Plate..	<i>4 by 3</i>					" to Wales " ..	<i>Ship 7/16 3/8</i>			
Ribs, Size of Angle Iron, single or double....	<i>up to height of Hold Beams</i>					Wales " ..	<i>Iron 1/2</i>			
" " Reversed Iron, to every frame	<i>Part of</i>					Topsides " ..	<i>7/16</i>			
" " or every frame.....	<i>Patent Iron</i>					Sheer-strakes " ..	<i>7/16</i>			
Beams, Deck (N ^o . <i>40</i>) double or single	<i>4 by 8 & 5 by 3</i>					Planksheers " ..	<i>Balk fir 8 in's thick</i>			
Angle Iron						Gunwale Plate or Stringer..	<i>7/16 by 2 ft in breadth</i>			
" depth & thickness of Plate amidships						Waterway	<i>Balk fir 8 in's</i>			
" double or single Angle Iron, }						Deck	<i>Yew Pine 3 in's</i>			
on lower edge						Ceiling in flat	<i>Balk fir 3 "</i>			
" average space between	<i>3 ft 6</i>					Bilge Planks inside.....				
" if wood (N ^o .) sided & moulded						Coiling from Bilge to Clamps				
Hold, (N ^o . <i>34</i>) double or single }	<i>Part patent</i>					Hold Beam Clamps				
Angle Iron	<i>4 by 8 & 5 by 3</i>					" " Shelf	<i>Iron 3/8 by 12 in's</i>			
" depth & thickness of Plate amidships						" " Stringers				
" double or single Angle Iron, }						Coiling between Decks				
on lower edge	<i>3 ft 6 in's</i>					Stringers " ..				
" average space between						Deck Beam Clamps				
" if wood (N ^o .) sided & moulded						" " Shelf				
Paddle, wood, sided and moulded }						Stringers in Hold ..	<i>Iron 3 by 3 Angle</i>			
or if Iron, size of Plate						Deck, Lower	<i>Iron fitted back to back</i>			
" Engine " " " "										
Keelson, wood, sided & moulded, iron, size of }	<i>3/8 by 18 in's</i>									
plate, if Box, give sketch & dimensions }	<i>4 3 by 3 Angle Iron</i>									
" Side or Bilge	<i>with Angle Iron on upper edge</i>									
" Number	<i>fitted back to back & fitted between floors</i>									
Transoms, material <i>Iron</i> or, if none, in what manner compensated for.										
Knight-heads <i>East India Teak.</i>										
Hawse Timbers " <i>do do</i> }										
The Ribs extend in one length from <i>Keel</i> to <i>Gunwale</i>										
The reverse angle irons on the floors extend in one length across the middle line from <i>Side</i> to <i>Side</i>										
" " " on the ribs " " " from <i>floors</i> to <i>Hold Beams.</i>										
Keelson, if wood, length of scarp										
Plates, Garboard, double or single rivetted to keel, with rivets (<i>3/4</i> ins.) diameter averaging (<i>3</i> in.) from centre to centre of rivet.										
" edges from Garboards to turn of bilge, worked carvel with a lining piece (<i>7/16</i> in.) thick, or clencher, double or single rivetted; rivets (<i>3/4</i> in.) diameter, averaging (<i>2 1/4</i> ins.) from centre to centre of rivets.										
" butts from Garboards to turn of bilge, worked carvel with a lining piece (<i>7/16</i> thick, double or single rivetted; rivets (<i>3/4</i> in.) diameter, averaging (<i>2 1/4</i> ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? <i>no</i> .										
" edges from bilge to wales, worked carvel with a lining piece (<i>7/16</i> thick, or clencher, double or single rivetted; rivets (<i>3/4</i> in.) diameter, averaging (<i>2 1/4</i> ins.) from centre to centre of rivets.										
" butts from bilge to wales, worked carvel with a lining piece (<i>7/16</i> thick, double or single rivetted; rivets (<i>3/4</i> in.) diameter, averaging (<i>2 1/4</i> in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? <i>no</i> .										
" edges of wales and to planksheers, worked carvel with a lining piece (<i>7/16</i> thick, or clencher, double or single rivetted; rivets (<i>3/4</i> in.) diameter, averaging (<i>2 1/4</i> ins.) from centre to centre of rivets.										
Planksheer, how secured to the plating of the sides										
Waterway " " planksheer and to the beams										
Side trussing breadth and thickness of plates										
Deck trussing										
Deck Beams, how secured to the side										
Hold " " "										
Paddle " " "										
No. of breasthooks <i>3</i> crutches										
What description of iron is used for the angle iron and bar iron in the vessel?										

547 Iron.

Workmanship. Are the lands or laps of the clenchwork in all cases sufficiently wide to take the rivets and support the strain on them? *yes*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *well fitted*
Do the fillings between the ribs and plates fill in all solid with sliver pieces, or are they in short lengths? *with solid pieces one length*
Do the holes for rivetting plate to lining piece, or plate to plate, &c., answer well to each other? *yes* and are the rivet holes well and sufficiently countersunk in the outer plate? *nicely counter sunk and well done*
Are there any rivets which either break into or have been put through the seams or butts of the plating? *none*
Was the plating caulked internally in the wake of the frames or ribs? *not usual.*

She has five well built bulkheads & water tight compartments.

Her Masts, Yards, &c., are in *good* condition, and sufficient in size and length. ✓

She has SAILS.			CABLES, &c.		ANCHORS, and their weights.		
N ^o .		Fathoms.		Inches.	N ^o .		
<i>Single Sunt of Sails.</i>	Fore Sails,	<i>240</i>	Chain	<i>1 1/4</i>	<i>3</i>	Bower,	<i>15" 0" 0 Common</i>
	Fore Top Sails,	<i>90</i>	Hawser chain	<i>7/8</i>	<i>1</i>	Stream,	<i>13" 3" 0 Porters</i>
	Fore Topmast Stay Sails,	<i>90</i>	Hempen Stream Cable	<i>7/8</i>	<i>1</i>	Kedge,	<i>12" 3" 0 Patent</i>
	Main Sails,	<i>90</i>	Hawser	<i>7/8</i>			<i>3" 0" 0</i>
	Main Top Sails,		Towlines	<i>5 1/2</i>			<i>2" 0" 0</i>
and <i>well found</i>			Warp				
			All of <i>best</i> quality.				

Her Standing and Running Rigging *is* sufficient in size and *good* in quality.

She has *One* Long Boat and *Safety & Quarter Boat*

The present state of the Windlass is *effick* Capstan and Rudder *effick* Pumps *efficiently*
" *Winches*

GENERAL REMARKS.

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.

*This Steamer has been built under
Special Survey Per Order No. 94.
The workmanship generally is of a superior
description.*

In what manner are the surfaces preserved from oxidation?

By Red lead inside & outside

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

The Amount of the Fee.....£ *5 : 0 :* is received by me,

man Special£ *25 : 17 :*

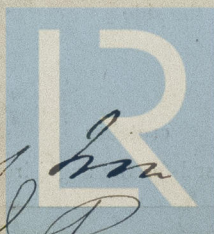
Certificate (if required)£ *0 : 0 :*

Please to find one here.

Committee's Minute *31st March 1854*

Character assigned *A 1 Built of Iron*

Samuel Petroy.



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Lloyd's Register
Foundation