

IRON SHIPS.

Rec 157/167

No. 9078 Survey held at Sunderland Date July 11th 1867

on the Barque "Altair" Master H. J. Jidy

Tonnage Gross 399 Engine Room _____ Register 389 1/2 Built at Sunderland

When Built 1867 Launched 1st July By whom built Messrs. Cliff, Mounsey & Co

Owners P. A. Penney Port belonging to Shoelham Destined Voyage _____

If Surveyed Afloat or in Dry Dock Whilst Building

Length aloft 140 8 Extreme Breadth.... 27 3 Depth from top of Upper Deck } Feet. Inches. } 16 6 Power of Engines.... _____ Horse.

| Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft | Inches in Ships. | | Inches required per Rule. | | Stem, if bar iron, moulding and thickness | Inches. 16ths. Inches. 16ths. required per Rule. required per Rule. | |
|--|--|--------------|---------------------------|--------------|---|---|----------|
| | In Ship. | In Ship. | In Ship. | In Ship. | | In Ship. | In Ship. |
| Floors, Size of Angle Iron, and No. 2 at bottom of Floor Plate..... | <u>3 1/4</u> | <u>2 3/4</u> | <u>6</u> | <u>3 1/4</u> | <u>2 3/4</u> | <u>6</u> | |
| „ depth and thickness of Floor Plate at mid line | <u>18 1/2</u> | <u>7</u> | <u>17 1/2</u> | <u>7</u> | | | |
| „ depth and thickness of Floor Plate at Bilge Keelson | <u>6</u> | <u>7</u> | <u>7</u> | | | | |
| „ Size of Reversed Angle Iron, and No. 2 at top of Floor Plate.. | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | |
| Frames, Size of Angle Iron, single or double.. | <u>3 1/4</u> | <u>2 3/4</u> | <u>6</u> | <u>3 1/4</u> | <u>2 3/4</u> | <u>6</u> | |
| „ „ Reversed Iron, if to every frame | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | |
| Beams, Deck (N ^o . <u>37</u>) double Angle Iron, Plate, or Bulb Iron..... | <u>6 3/4</u> | <u>7</u> | <u>6 3/4</u> | <u>7</u> | | | |
| „ „ double or single Angle Iron, on upper edge..... | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | |
| „ „ average space between | <u>every other frame</u> | | | | | | |
| „ „ if wood (N ^o .) sided & moulded | | | | | | | |
| „ Hold, or Lower Deck (N ^o . <u>23</u>) } double Angle Iron, Plate, or Bulb Iron } | <u>6 3/4</u> | <u>7</u> | <u>6 3/4</u> | <u>7</u> | | | |
| „ „ double or single Angle Iron on upper edge..... | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | <u>2 1/2</u> | <u>2 1/2</u> | <u>5</u> | |
| „ „ average space between | <u>2nd & 4th frames alternately except in way of Hatchways</u> | | | | | | |
| „ „ if wood (N ^o .) sided & moulded | | | | | | | |
| „ Paddle wood, sided and moulded, or if Iron, size of Plate | | | | | | | |
| „ Engine | | | | | | | |
| Keelson, single plate, box, or intercostal straining piece above floor | | | <u>7</u> | | | <u>7</u> | |
| „ Size of Plates | | | | | | | |
| „ Size of Angle Irons double to top | <u>3 3/4</u> | <u>2 3/4</u> | <u>6</u> | <u>3 1/2</u> | <u>3</u> | <u>6</u> | |
| Ditto Bilge (No. <u>one</u>) and bottom angle iron's | <u>3 3/4</u> | <u>2 3/4</u> | <u>6</u> | <u>3 1/2</u> | <u>3</u> | <u>6</u> | |

Transoms, material Iron or, if none, in what manner compensated for. _____

Knight-heads, and Hawse Timbers _____

The Frames or Ribs extend in one length from Keel to Gumwale rivetted through plates with (3/4 in.) rivets, about (5 1/6) apart.

The reverse angle irons on the floors extend in one length across the middle line from Bilge to Bilge on every alternate frame

„ „ „ on the frames „ „ & from thence to Gumwale on alternate frames

Keelson, how are the various lengths of plates or angle irons connected? Butt Straps

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1 1/4 x 3/4 ins.) diameter averaging (2 1/2 in.) from centre to centre of rivet.

„ Edges from Garboards to upper part of bilge, worked carvel with a lining piece (— in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets.

„ Butts from Keel to turn of bilge, worked carvel with a lining piece (9 x 10 / 16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

„ Edges from bilge to sheerstrake, worked carvel with a lining piece (—) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

„ Edge of Sheerstrake, double or single rivetted? at upper & lower edges

„ Butts from bilge to planksheers, worked carvel with a lining piece (7 x 10 / 16) thick, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/2 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (4 1/4) Breadth of laps in single rivetting (—)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? _____

Planksheer, how secured to the plating of the sides } Explain by sketch } Gutter Gunwale

Waterway „ „ planksheer and to the Beams } if necessary. }

Deck Beams, how secured to the side? Turned down ends & rivetted to the frames & stringers

Hold or Lower Deck „ Turned down ends & rivetted to the frames & stringers

Paddle „ „ _____

No. of breasthooks 5 crutches 4 how are pointers compensated? _____

What description of iron is used for the angle iron and plate iron in the vessel? AI S. S. & Co. & Palmer's Iron Co.; Plates. Stockton malleable Iron Comp. Builder's Signature Cliff Mounsey & Co.

IRON 44 0050

