

IRON SHIPS.

No. 3345 Survey held at Glasgow Date 17th May 1865
 on the Screw Steamer Cromwell Master ✓
 Tonnage under tonnage deck 552.88 Built at Glasgow When built 1865 Launched 27th Dec^r 1865
 Ditto of prop the Room or spar deck 1.43 By whom built J. & G. 88, 101, 106 (Lm) Owners J. & G. 88, 101, 106 (Lm)
 Ditto of engine room 116.02 Port belonging to London Destined Voyage Coasting
 Total Register tonnage 438.39
 Gross tonnage 554.31
 If surveyed while Building, Afloat, or in Dry Dock Whilst Building and afloat Catfitted

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	N ^o . of Decks
(Dimensions of Ship per Register, length)	<u>178</u>		breadth	<u>28.8</u>		depth	<u>16</u>		<u>90</u>		<u>One</u>
Keel, $\frac{1}{2}$ bar iron, depth and thickness			Inches in Ship.			Inches required per Rule.			Plates in Garboard Strakes, breadth and thickness		
" if plate iron, breadth and thickness			<u>4 x 2 3/4</u>			<u>4 x 3 1/2</u>			Ditto from Garboard to upper part of Bilges		
Stem, $\frac{1}{2}$ bar iron, moulding and thickness			<u>4 x 2 3/4</u>			<u>4 x 3 1/2</u>			" from upper part of Bilge to a perpendicular height from upper side of Keel of $\frac{1}{3}$ ths the entire depth of Hold		
" if plate iron, breadth and thickness			<u>4 x 5 1/2</u>			<u>4 x 5</u>			" from $\frac{1}{3}$ ths depth of Hold to lower edge of Sheerstrake		
Stern-post, $\frac{1}{2}$ bar iron, moulding and thickness									" Sheerstrake, breadth and thickness		
" if plate iron, breadth and thickness			<u>21</u>			<u>21</u>			Butt Straps to outside plating, breadth and thickness		
Distance of Frames from moulding edge to moulding edge, all fore and aft			Inches. In Ship.			Inches. In Ship.			Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness		
Frames, Size of Angle Iron, single or double			<u>4</u>	<u>3</u>	<u>7/16</u>	<u>3 1/2</u>	<u>3 1/2</u>	<u>70</u>	Angle Iron on ditto		
" Reversed Iron, if to every frame			<u>3</u>	<u>3</u>	<u>1/16</u>	<u>3</u>	<u>3 1/2</u>	<u>70</u>	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways		
" or every other frame									Diagonal Tie Plates on ditto		
Floors, depth and thickness of Floor Plate at mid line			<u>18 1/2</u>	<u>5 1/2</u>	<u>7/16</u>	<u>18 1/2</u>	<u>5 1/2</u>	<u>70</u>	Planksheer, materials and scantlings		
" Ditto ditto at Bilge Keelson			<u>11 1/2</u>	<u>5 1/2</u>	<u>7/16</u>	<u>11 1/2</u>	<u>5 1/2</u>	<u>70</u>	Waterway ditto ditto		
" Size of Reversed Angle Iron, and No. at top of Floor Plate			<u>3</u>	<u>3</u>	<u>1/16</u>	<u>3</u>	<u>3 1/2</u>	<u>70</u>	Flat of Upper Deck, thickness and material		
Beams, Deck (N ^o . —) double Angle Iron, Plate, Tee, or Bulb Iron			<u>7</u>	<u>7/16</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>70</u>	" how fastened to Beams		
" double or single Angle Iron, on upper edge			<u>2 1/2</u>	<u>2 1/2</u>	<u>7/16</u>	<u>2 1/2</u>	<u>2 1/2</u>	<u>70</u>	Ceiling between Decks and in Hold, thickness and material		
" average space between			<u>3 1/2</u>	<u>3 1/2</u>	<u>7/16</u>	<u>3 1/2</u>	<u>3 1/2</u>	<u>70</u>	Clamps or Spirketting ditto		
" Hold, or Lower Deck (N ^o . —) double Angle, Tee, Plate, or Bulb Iron			<u>7</u>	<u>7/16</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>70</u>	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness		
" double or single Angle Iron, on upper edge			<u>2 1/2</u>	<u>2 1/2</u>	<u>7/16</u>	<u>2 1/2</u>	<u>2 1/2</u>	<u>70</u>	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams		
" average space between			<u>3 1/2</u>	<u>3 1/2</u>	<u>7/16</u>	<u>3 1/2</u>	<u>3 1/2</u>	<u>70</u>	Stringers in Hold		
" Paddle, sided and moulded, thickness of Plate size of Angle Iron									Flat of Lower Deck, thickness and material		
" Engine									Main piece of Rudder, diameter at head		
Keelson, single or double plate, iron, or intercostal			<u>6</u>	<u>7/16</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>70</u>	" " at heel		
" Size of Plates			<u>22 1/2</u>	<u>7/16</u>	<u>22 1/2</u>	<u>7/16</u>	<u>22 1/2</u>	<u>70</u>	(Can the Rudder be unshipped afloat)		
" Size of Angle Irons			<u>4 1/2</u>	<u>3 1/2</u>	<u>7/16</u>	<u>4 1/2</u>	<u>3 1/2</u>	<u>70</u>	Bulkheads, N ^o . Four Thickness of		
" Side, single or double, plate, box, or intercostal									" Height up upper deck		
" Bilge (No. —) at each Bilge, single, or double, plate, or box			<u>4 1/2</u>	<u>3 1/2</u>	<u>7/16</u>	<u>4 1/2</u>	<u>3 1/2</u>	<u>70</u>	" how secured to the sides of the ship		
Transoms, material <u>Plate</u> or, if none, in what manner compensated for.									size of vertical angle irons and their distance apart		
Knight-heads, and Hawse Timbers <u>Angle bars & plates</u>									rivetted through plates with (<u>3/4</u> in.) rivets, about (<u>5</u> ths) apart.		
The Frames extend in one length from <u>Keel</u> to <u>Gunnwale</u>									The reverse angle irons on the floors extend in one length across the middle line from <u>Bilge</u> to <u>Bilge</u> (upper part)		
The reverse angle irons on the floors extend in one length across the middle line from <u>Bilge</u> to <u>Bilge</u> (upper part)									" " on the frames " and " from <u>Gunnwale</u> to <u>Gunnwale</u> alternately		
Keelson, how are the various lengths of plates or angle irons connected?									Plates, Garboard, double rivetted to keel, double rivetted at upper edge, with rivets (<u>1 1/4</u> ins.) diameter, averaging (<u>3 1/2</u> ins.) apart.		
Plates, Garboard, double rivetted to keel, double rivetted at upper edge, with rivets (<u>1 1/4</u> ins.) diameter, averaging (<u>3 1/2</u> ins.) apart.									" Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.		
" Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.									" Butts from Keel to turn of bilge, worked carvel with butt straps (<u>1 1/2</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.		
" Butts from Keel to turn of bilge, worked carvel with butt straps (<u>1 1/2</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.									Do the butt straps lap over and rivet through the lands of the strake below? <u>No.</u>		
" Edges from bilge to sheerstrake, worked carvel with a lining piece (—) thick, or clencher, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.									Do the butt straps lap over and rivet through the lands of the strake below? <u>No.</u>		
" Edges from bilge to sheerstrake, worked carvel with a lining piece (—) thick, or clencher, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart.									Edges of Sheerstrake, double and single rivetted? At upper edge <u>Single</u> At lower edge <u>Double</u>		
" Edges of Sheerstrake, double and single rivetted? At upper edge <u>Single</u> At lower edge <u>Double</u>									Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? <u>Double</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Planksheer, how secured to the plating of the sides " " Explain by sketch		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Waterway " " Planksheer and to the Beams if necessary. <u>Stringer plate + upper edge of planksheer strakes with rivets & bolts</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Deck Beams, how secured to the side? <u>Welded</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Hold or Lower Deck ditto <u>Do</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Paddle " " " " " " No. of breasthooks <u>None</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? <u>Moss End and</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Manufacturer's name or trade mark <u>Glasgow Boiler Plate</u>		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									We certify that the above is a correct description of the several particulars therein given.		
" Butts from bilge to planksheers, worked carvel with butt straps (<u>9/16</u> to <u>9/16</u>) thick, double or single rivetted; with rivets (<u>3/4</u> in.) diameter, averaging (<u>2 1/4</u> ins.) apart. Breadth of laps in double rivetting (<u>5 1/2</u> diam ^t) Breadth of laps in single rivetting (<u>3 1/2</u> diam ^t)									Builder's Signature <u>D. Smith</u> Surveyor's Signature <u>R. D. Smith</u>		

