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IRON SHIPS.

now *Prins Oscar* 13/3/57

No. 907 Survey held at Dumbarton Date 22^d April 1857 Reg 1/5/54

on the Screw Steamer "Cottongraham" Master John H. Brown

Tonnage Gross 919 Engine Room 312 Register 54 1/100 Built at Dumbarton

When Built 1854 By whom built Mr. James Matheson Owners Joseph Lee & Co.

Port belonging to Hull Destined Voyage Hull and Hamburg

Surveyed Afloat or in Dry Dock Building & Afloat

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse No.	
.....	198	9/10	29	2/10	15	7/10	
Distance between Floors amidships	1	3				Stem, if bar iron, moulding and thickness	1	2			
" " " forward and aft	1	3				" if plate iron, breadth and thickness	"	"			
" " Ribs amidships	1	3				Stern-post, if bar iron, moulding and thickness	1	3			
" " " forward and aft	1	3				" " if plate iron, breadth and thickness	"	"			
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	4	3 1/2	1/16	3/8	ends	Keel, if bar iron, depth and thickness	8	2			
" depth & thickness of Plate at mid line	18	3/8	5/16	ends	" if plate iron, breadth and thickness	"	"				
" " " at turn of bilge						Garboard Plates, thickness			Description of Iron		
" Size of Reversed Angle Iron, and No. at top of Floor Plate	3 1/2	2 1/2	7/16	ends		" to bilge	1/16	3/8	ends		
Ribs, Size of Angle Iron, single or double	4	3	1/2	3/8	ends	Bilge	1/2	3/8	do		
" Reversed Iron, if to every frame or every alternate frame	3 1/2	2 1/2	7/16			" to Wale	1/2	3/8	do		
Beams, Deck (N ^o . 10) double or single	4	2 1/2	1/4			Wales	7/16				
" T Angle Iron	12	1/4			3 wale plates	Topsides	7/16	3/8	ends		
" depth & thickness of plate amidships	12	1/4				Sheerstrakes	1/16	3/8	do		
" double or single Angle Iron, on lower edge	3 feet	9 inches				Planksheers	None				
" average space between	3 feet	9 inches				Gunwale Plate or Stringer	Plate Iron	2 1/4	1/2	3/16	ends
" if wood (N ^o .) sided & moulded						Waterway	Pitch Pine	13			
Hold, (N ^o . 7) double or single	4	3 1/2				Deck	Yellow Pine	3 1/2			
" Angle Iron	8	1/2				Ceiling in flat	Yellow Pine	2 1/2			
" depth & thickness of plate amidships	8	1/2				Bilge Planks inside	Red Pine	2 1/2			
" double or single Angle Iron, on lower edge	12 feet					Ceiling from Bilge to Clamps	Open Iron	1 3/4			
" average space between	12 feet					Hold Beam Clamps					
" if wood (N ^o .) sided & moulded						" Shelf					
" Paddle, wood, sided and moulded or if Iron, size of Plate						" Stringers	Double Angle Iron 6 x 3 x 7/16				
" Engine						Ceiling between Decks	Open Iron	1 3/4			
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	8	3 1/2				Stringers					
" Side or Bilge	18	3/8				Deck Beam Clamps					
" Number	3 1/2	2 1/2	7/16			" Shelf					
						Stringers in Hold					
						Deck, Lower					



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

Knight-heads

Hawse Timbers are they free from defects?

The Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (1/8 in.) apart.

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

" " " on the ribs " " " from alternately to Deck Stringer

Keelson, if wood, length of scarp if iron, how are the various lengths connected? shifted

Plates, Garboard, double or single rivetted to keel, with rivets (7/8 ins.) diameter averaging (3 1/2 in.) from centre to centre of rivet.

" edges from Garboards to turn of bilge, worked carvel with a lining piece (— in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

" butts from Garboards to turn of bilge, worked carvel with a lining piece (1/2) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges from bilge to wales, worked carvel with a lining piece (—) 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 bilge to wales, worked carvel with a lining piece (1/2) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges of wales and to planksheers, worked carvel with a lining piece (—) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/2 ins.) from centre to centre of rivets.

Planksheer, how secured to the plating of the sides { Explain by sketch, Bolted to Stringer, Beam & Waterway

Waterway " " planksheer and to the Beams { if necessary.

Side trussing breadth and thickness of plates how secured

Deck trussing

Deck Beams, how secured to the side With "Triangle" Plate Nuts

Hold " "

Paddle " "

No. of breasthooks crutches how are pointers compensated? Angle Iron

What description of iron is used for the angle iron and bar iron in the vessel? Mr. James A. Matheson Builder's Signature.

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Workmanship. Are the lands or laps of the clenework 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? *Both*
 Do the fillings between the ribs and plates fill in all solid with sliver pieces, or are they in short lengths? *Both*
 Do the holes for rivetting plate to lining piece, or plate to plate, &c., answer well to each other? *✓* and are the rivet holes well and sufficiently countersunk in the outer plate? *✓*
 Are there any rivets which either break into or have been put through the seams or butts of the plating? *✓*
 Was the plating caulked internally in the wake of the frames or ribs? *No*

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 .	
2	Fore Sails,	140	Chain	1 1/4	3	Bower, 18-3-0 & 16-2-0
1	Fore Top Sails,	80	do	3/4	1	Stream, 8-1-0
1	Fore Topmast Stay Sails,	80	Hawser	7	1	Kedge, 4-3-0
1	Main Sails,	80	Towlines	6		
1	Main Top Sails,	80	Warp	4		
	and all other Sails		All of <u>Good</u> quality.			

Her Standing and Running Rigging Complete sufficient in size and Good in quality.

She has One 22 ft Long Boat and Two 23 feet Life Boats & One 16 feet Volly Boat

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps Good

GENERAL REMARKS.

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

*Six Watertight Bulkheads, Light Riggered Barge
 Patent Screw Propeller
 Testing Certificates of the Chain Cable produced
 Surveyed by me several times during the progress of Building*

In what manner are the surfaces preserved from oxidation? Red Lead and Linseed Oil Paint and Peacock Patent Paint in Bottom

I am of opinion this Vessel should be classed A 1

The amount of the Fee£ 5: 0: 0 is received by me,

Special£ 4: 4: 0

Certificate (if required)£ 4: 5: 0

Committee's Minute 2nd May 1857

Character assigned A 1 *Benjamin J. Ross M.C.*

Certificates to be sent to the Owner J. Bull.

