

IRON SHIPS.

Rec 26/2/55

No. 1031 Survey held at Dumbarton Date 20th February 1855
 on the Steamer Excelsior Master James Davie
 Tonnage—Gross Engine Room Register 247^{1/2} Built at Dumbarton
 When Built 1855 By whom built Alexander Penny Owners Alexander Penny
 Port belonging to Port Glasgow Destined Voyage London
 If Surveyed Afloat or in Dry Dock Building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse. No.
	119	9/10	21	9/10		13	9/10			
Distance between Floors amidships	1	3								
„ „ „ forward and aft	1	3								
„ „ „ Ribs amidships	1	3								
„ „ „ forward and aft	1	3								
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	3 1/2	3	3/8							
„ depth & thickness of Plate at mid line	15	3/8								
„ „ „ „ at turn of bilge										
„ Size of Reversed Angle Iron, and No. at top of Floor Plate	2 1/2	2 1/4	1/4							
Ribs, Size of Angle Iron, single or double	3 1/2	3	3/8							
„ Reversed Iron, if to every frame or every other frame	2 1/2	2 1/4	1/4							
Beams, Deck (N° 45) double or single Angle Iron	5	3	7/16							
„ „ depth & thickness of Plate amidships										
„ „ double or single Angle Iron, on lower edge										
„ „ average space between	30									
„ „ if wood (N°) sided & moulded										
„ Hold, (N°) double or single Angle Iron										
„ „ depth & thickness of Plate amidships										
„ „ double or single Angle Iron, on lower edge										
„ „ average space between										
„ „ if wood (N°) sided & moulded										
„ Paddle, wood, sided and moulded or if Iron, size of Plate										
„ Engine										
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	5	3 1/2								
„ Side or Bilge	18	3/8								
„ Number										

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

Knight-heads „ Weak } are they free from defects?
 Hawse Timbers „ Weak }

The Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (7 in.) apart.

The reverse angle irons on the floors extend in one length across the middle line from Keel to Bilge & alternately to Deck
 „ „ „ „ on the ribs „ „ „ from Keel to do

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 (3/4 ins.) diameter averaging (2 1/4 in.) from centre to centre of rivet.

„ edges from Garboards to turn of bilge, worked carvel with a lining piece (1 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 Garboards to turn of bilge, worked carvel with a lining piece (1/2) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 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 (7/16) thick, 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?

„ 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

Waterway „ „ planksheer and to the beams { Explain by a sketch, if necessary.

Side trussing breadth and thickness of plates how secured

Deck trussing Plate 5 x 7/16

Deck Beams, how secured to the side Plate 5 x 7/16 rivetted to Beams & Ribs

Hold „ „

Paddle „ „

No. of breasthooks 2 crutches — how are pointers compensated?

What description of iron is used for the angle iron and bar iron in the vessel? Said to be Best Alexander Penny Builder's Signature.

736. 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? *Both*
Do the fillings between the ribs and plates fill in all solid with sliver pieces, or are they in short lengths? *By* and are the rivet holes well and sufficiently countersunk in the outer plate? *By*
Are there any rivets which either break into or have been put through the seams or butts of the plating? *Many*
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 .	
1	Fore Sails,	180	Chain	1 1/8	3	Bower, <i>11-0-0 & 10-0-0</i>
1	Fore Top Sails,	80	Hempen Stream Cable	6	1	Stream, <i>5-2-0</i>
1	Fore Topmast Stay Sails,	80	Hawser	5	1	Kedge, <i>3-0-0</i>
1	Main Sails,	✓	Towlines	✓		
1	Main Top Sails,	160	Warp	4		
and other requisite Sails			All of <i>Good</i> quality.			

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

She has *One 18 feet* Long Boat and *One 16 feet* Jolly Boat

The present state of the Windlass is *Good* ^{2 Winches} *Capstan* 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.

*She has Four Watertight Bulkheads; Wire Standing Rigging; Iron Bulwarks
She has been Surveyed several times while Building in accordance with the Rules
Rigged as a Three Masted Schooner*

In what manner are the surfaces preserved from oxidation? *Red Lead and Linseed Oil
Paint and Buchanan's Patent Paint*

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

The Amount of the Fee.....£ *3* : : is received by me,

Special£ *4* : *4* :

Certificate (if required)£ : : *5* :

Committee's Minute *27th February 1855*

Character assigned *1* *Builder's*

John Maxwell Junr.



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