

IRON SHIPS.

Rec 27/9/69

No. 3018 Survey held at Dumbarton Date 23 September 18 69

on the Ship "Pleiades" Master Inglis

Tonnage under tonnage deck 935.13

Ditto of quarter deck 84.38

Ditto of poop, forecastle, other erections on upper deck 1079.57

Ditto of engine room 22.21

Total Register tonnage, 997.30

Built at Dumbarton

When built 1869

Launched Sept 8/69

By whom built A. Mc Millan & Son Owners Adamson & Donaldson

Port belonging to London

Destined Voyage Not fixed

If Surveyed while Building, Afloat, or in Dry Dock Building & Afloat

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
209.6	6		33.1	1		20.6	8	10	20 10 227	229	2
(Dimensions of Ship per Register, length 209.6 breadth 33.1 depth 20.6)											
Keel, N bar iron, depth and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		Plates in Garboard Strakes, breadth and thickness		
if plate iron, breadth and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		Ditto from Garboard to upper part of Bilges		
em, N bar iron, moulding and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold		
if plate iron, breadth and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		from 3/4ths depth of Hold to lower edge of Sheerstrake		
ern-post, N bar iron, moulding and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		Sheerstrake, breadth and thickness		
if plate iron, breadth and thickness	9 x 2 3/4		8.3		Inches in Ship.		Inches required per Rule.		Butt Straps to outside plating, breadth and thickness		
istance of Frames from moulding edge to moulding edge, all fore and aft	21		21		Inches in Ship.		Inches required per Rule.		Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness		
Frames, Size of Angle Iron, single or double	5	3	9/16	4 3/4	3	8/16	3 1/4	3	7/16	Angle Iron on ditto	
Reversed Iron, N to every frame	3	3	8/16	3 1/4	3	7/16	3 1/4	3	7/16	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	
ors, depth and thickness of Floor Plate at mid line	23		10/16	2 1/4		10/16				Diagonal Tie Plates on ditto	
Ditto ditto at Bilge Keelson	10 1/2	x	10/16							Planksheer, materials and scantlings	
Size of Reversed Angle Iron, and No. one at top of Floor Plate	3	3	8/16	3 1/4	3	7/16	3 1/4	3	7/16	Waterway ditto ditto	
Beams, Deck (N ^o .) double Angle Iron	8		8/16	8 1/4	8/16					Flat of Upper Deck, thickness and material	
Plate, Tee, or Bulb Iron	3	3	7/16	3 1/4	3	7/16	3 1/4	3	7/16	how fastened to Beams	
double single Angle Iron	3	3	7/16	3 1/4	3	7/16	3 1/4	3	7/16	Ceiling betwixt Decks and in Hold, thickness and material	
on upper edge	42					42				Clamps or Spirketting ditto	
average space between	8 1/4	x	9/16	8 1/4	8/16					Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	
Hold, or Lower Deck (N ^o .)	3	3	7/16	3 1/4	3	7/16	3 1/4	3	7/16	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	
double Angle, Tee, Plate, or Bulb Iron	42					42				Stringers in Hold	
double single Angle Iron	3	3	7/16	3 1/4	3	7/16	3 1/4	3	7/16	Flat of Lower Deck, thickness and material	
on upper edge	42					42				Main piece of Rudder, diameter at head	
average space between	8 1/4	x	9/16	8 1/4	8/16					" " " at heel	
Paddle, sided and moulded, thick-										(Can the Rudder be unshipped afloat)	
ness of Plate size of Angle Iron										Bulkheads, N ^o . one Thickness of	
Engine "Booth Iron"	10	10/16		8	8/16					Height up Main Deck	
Keelson, single or double plate, box, or intercostal	23		10/16			10/16				how secured to the sides of the ship	
Size of Plates	5	4 1/2	9/16	5	4 1/2	9/16				size of vertical angle irons and their distance apart	
Size of Angle Irons	4	18	8/16			8/16				The Frames extend in one length from Keel to Gunwale rivetted through plates with (1/2 in.) rivets, about (1/2) apart.	
Side, single or double, plate, box, or intercostal	4	4	8/16			8/16				The reverse angle irons on the floors extend in one length across the middle line from Hold Beams to Gunwale alternately, on the frames " " " from Middle Line to Gunwale	
Bilge (No. two) at each Bilge, single, or double, plate, or box	5	4 1/2	9/16	5	4 1/2	9/16				Keelson, how are the various lengths of plates or angle irons connected? By Lining Pieces	

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

Knight-heads, and Hawse Timbers Iron

The Frames extend in one length from Keel to Gunwale rivetted through plates with (1/2 in.) rivets, about (1/2) apart.

The reverse angle irons on the floors extend in one length across the middle line from Hold Beams to Gunwale alternately, on the frames " " " from Middle Line to Gunwale

Keelson, how are the various lengths of plates or angle irons connected? By Lining Pieces

Plates, Garboard, double rivetted to keel, double at upper edge, with rivets (1 1/4 in.) diameter, averaging (3 1/4 in.) apart.

Edges from Garboards to upper part of bilge, worked clenchier, double or single rivetted; with rivets (1/8 in.) diameter, averaging (2 3/4 in.) apart.

Butts from Keel to turn of bilge, worked carvel with butt straps (13 12) thick, double or single rivetted; with rivets (1/8 in.) diameter, averaging (2 3/4 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? Alternately

Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clenchier, double or single rivetted; with rivets (1/8 in.) diameter, averaging (2 3/4 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? Alternately

Edges of Sheerstrake, double or single rivetted? At upper edge Single At lower edge Double

Butts from bilge to planksheers, worked carvel with butt straps (10 11 12) thick, double or single rivetted; with rivets (1/8 in.) diameter, averaging (2 3/4 in.) apart. Breadth of laps in double rivetting (5 1/2) Breadth of laps in single rivetting ()

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? Double & Single

Planksheer, how secured to the plating of the sides Explain by sketch Iron Nailmarks

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

Deck Beams, how secured to the side? Milled Knee Plates Rivetted to Frames

Hold Lower Deck ditto

No. of breasthooks 4 crutches 3

A description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?

Manufacturer's name or trade mark Blackburn & Parkhead

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature Arch Mc Millan Son

Surveyor's Signature Alex Linton

IRON 444-0422

7373 Iron

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? 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? Yes
Do the fillings between the ribs and plates fill in solid with single pieces? Yes or are they in short lengths of various thicknesses? No
Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the outer plate? Yes
Are there any rivets which either break into or have been put through the seams or butts of the plating? A few in Corners of Butts

Her Masts, Bowsprit, Yards, &c., are in Good condition, and sufficient in size and length. (If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.)

Tested by Mr. Jack at Chester
14th May 1869

Tested by Mr. Jack at Chester
14th & 22nd May 1869

N ^o .	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	Fore Sails,	N 406 Chain 407.....	300	1 7/16	5 1/4	1 7/16	5 1/2 10	Bowers	3	27.3.25	27.2.20	27 3/4	26 9/10
	Fore Top Sails,									27.3.9	27.0.00	27 3/4	26 9/10
	Fore Topmast Stay Sails	Hempen Stream Cable	60	1		15/16	or 10" rope	Stream	1	11.0.23		11.0.0	
	Main Sails,	Hawser											
	Main Top Sails,	Towlines	90	1 1/2		9 1/2		Kedges	2	5.2.0		5.2.0	
		Warp	90	8 1/2						2.3.0		2.3.0	
		All of <u>Good</u> quality.	90	6 1/2									
Her Standing and Running Rigging <u>Sufficient</u> in size and <u>Good</u> in quality.													
She has <u>Two Life</u> Long Boat and <u>Funnel & Grog</u>													
The present state of the Windlass is <u>New</u> Capstan <u>New</u> and Rudder <u>New</u> Pumps <u>Efficient</u>													

Order for Special Survey DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought
No. 668 Surveys held 2nd. On the plating during the progress of rivetting Rec'd under Special Survey
Date July 16/69 while building 3rd. When the beams were in and fastened, and before the decks were laid from 24th July
Order for Ordinary Survey as per 4th. When the ship was complete, and before the plating was finally coated till
No. 1 Section 18. 5th. After the ship was launched September 28th 1869
Date 1

State if she has a Spar Deck No Poop Yes or Forecastle Yes

General Remarks, Fore & Main Mast of Iron & Plates in the round, 3/8 & 5/16 thick and single butt double rivetted & Angle Irons in each 3/2 & 3 & 7/16
Mizen Mast & plates in the round 3/8 & 5/16 thick. Three angle Bars 3 & 3 & 7/16. Bowsprit & plates in the round 3/8 & 5/16 thick, Three angle Bars 3 1/2 & 3 & 7/16, Fore & Main Lower Yards plates 5/16 in tapering to 4/16 at ends, Cross Jack Yard, Fore & Main Lower Topsail yards 5/16 tapering to 4/16 in two steps from 2 1/2 & 5/16 in thick
Length of Fore Mast 44 ft 3 in long 28 in diameter, plates 11 feet long
" Main Mast 48 ft 3 in " 28 in diameter plates 11 ft 3 in
" Mizzen Mast 42 ft 9 in " 24 1/2 in " 10 ft 5 in 5/16 & 5/16 thick
" Bowsprit 34 ft 6 in " 28 1/2 in " 11 ft 6 in

In what manner are the surfaces preserved from oxidation? Inside With Portland Cement in Bottom, Keel, Head, Lead
Ditto ditto Outside Red Lead and Oil Paint oil paint

I am of opinion this Vessel should be Classed A1

The amount of the Fee£ 5 : : : is received by me,
Dep't M.C. Special£ 49 1/4 :
Certificate (if required)£ gratis

Committee's Minute 28th September 1869

Character assigned A1
Rec'd