

3088 IRON SHIPS.

Recd. 9/3/63

18 h

No. 1749 Survey held at Belfast

Date 10th February

on the Iron Screw Steamer "Persian"

Master —

Tonnage Gross 2075 - Engine Room 304 - 53 Register 1740 - 44 Built at Belfast & Launched 21st Jan'y

When Built 1863 By whom built Harland & Wolff Owners John Birley Sons & Co.

Port belonging to Liverpool

Destined Voyage

If Surveyed Afloat or in Dry Dock Specially Surveyed while building

Length aloft	Feet. 36 1/8	Inches. 8	Extreme Breadth... 34	-	Feet. 24	Inches. 11 1/2	Depth from top of Upper Deck } Beam to top of Floor..... }	Feet. 24	Inches. 11 1/2	Power of Engines....	Horse No.	
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft }	Inches in Ship. 18				Inches required per Rule. 18							
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate..... }	5	3 1/2	10 1/8	1 1/2	4	14 1/8	Stem, N bar iron, moulding and thickness	9	3	12	3	
,, depth and thickness of Floor Plate at mid line	25		11 1/8	2 1/2	10 1/8	,, if plate iron, breadth and thickness						
,, depth and thickness of Floor Plate at Bilge Keelson	9		4 1/8			Stern-post, N bar iron, moulding and thickness 13 b						
,, Size of Reversed Angle Iron, and No. 2 at top of Floor Plate.. }	3 1/2	3	8 1/8	4 1/2	3 1/2	Propeller-post 9 1/2 x 6 bottom 18 x 6 Mid 10 x 6 at top						
Frames, Size of Angle Iron, single or double..	5	3 1/2	10 1/8	1 1/2	4	10 1/8	,, if plate iron, breadth and thickness					
,, Reversed Iron, N to every frame or every frame..... }	3 1/2	3	8 1/8	4 1/2	3 1/2	Keel, N bar iron, depth and thickness.....	9	3 4 3/2	12	3		
Beams, Deck (Nº) double Angle Iron or Bulb Iron with double Angle Iron on top	4 1/8					,, if plate iron, breadth and thickness						
,, depth & thickness of plate amidships	6		14 1/8	8 1/2		Garboard Plates, thickness						
,, double or single Angle Iron, }						From Garboard to upper part of Bilge.....	Mussey Steel + Iron 6c	12 1/8	1 1/2	17 1/2		
Bulb Iron on lower edge	3 5					From upper part of Bilge to Sheerstrakes.....		15 1/8	1 1/2	15 1/2		
,, average space between						Sheerstrakes		12 1/8	1 1/2	13 1/2		
,, if wood (Nº) sided & moulded						Breadth & thickness of Butt Straps to outside plating)		14 1/8	1 1/2	15 1/2		
Hold, or Lower Deck (Nº) double Angle Iron or Bulb Iron with double Angle Iron on top	4 1/8							9+10+14				
,, depth & thickness of plate amidships	1		14 1/8			Plankshears	Material. Greenheart					
,, double or single Angle Iron, }						Gunwale Plate or Stringer on ends of Up. Dk Beams		25 1/2	1 1/2	28 1/2	13 1/2	
Bulb Iron on lower edge	3 5					Angle Iron on ditto.....		5 1/2 x 4 1/2	4 1/2	6 1/2 - 5 1/2	14 1/2	
,, average space between						Waterway	Iron					
,, if wood (Nº) sided & moulded						Deck	Iron					
Paddle, wood, sided and moulded or if Iron, size of Plate						Ceiling in Hold	Red Pine	2 1/2				
Engine Iron Box 20 x 7 1/2 x 8 1/2						Ceiling betwixt Decks	Red Pine	2 1/4				
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions						Beam Clamps						
Side or Bilge						,, Shelf						
Number	5					,, Stringer Plates on ends of Hold or Lower Dk Beams		3 1/2	1 1/2	25 1/2	13	
						Ceiling between Decks	Red Pine	2				
						Stringer or Tie Plates outside Hatchways	2 Bars on each side of beams					
						Deck Beam Clamps						
						,, Shelf						
						Stringers in Hold						
						Deck, Lower	Yellow Pine	3				
						D eck, Upper, how fastened to Beams Riveted with 5/8 Rivets						

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

Knight-heads " d - }

Hawse Timbers " d - }

are they free from defects? Yes

Bulkheads, N°. 7 1/2 main deck Thickness of 8 in

how secured to the sides of the ship Riveted between two frames

size of vertical angle iron and their distance apart. 3 3/4 x 3 x 8 1/2 in apart

The Frames or Ribs extend in one length from Keel to Gunwales riveted through plates with (1 in.) rivets, about () apart.

The reverse angle irons on the floors extend in one length across the middle line from 3 1/2 to 4 feet on each side alternately to hold Red Pine

on the frames " " from " " to " "

Keelson, how are the various lengths of plates or angle irons connected? With hot straps ✓

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

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

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

Edges from bilge to planksheer, worked carvel with a lining piece () thick, double or single riveted; rivets (1 1/4 in.) diameter, averaging (.3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? alternately

Butts from bilge to planksheers, worked carvel with a lining piece () thick, or clencher, double or single riveted; rivets (1 1/4 in.) diameter, averaging (.3 in.) from centre to centre of rivets. Breadth of laps in double rivetting () Breadth of laps in single rivetting (-)

Planksheer, how secured to the plating of the sides

Explain by sketch,

Waterway " " planksheer and to the Beams

if necessary.

Side trussing breadth and thickness of plates how secured?

Deck trussing Iron deck " " " "

Deck Beams, how secured to the side? Keel plates, riveted to frames

Hold or Lower Deck the same as above, and diagonal incising to waste hatches, and to stronger plates 12 1/2 x 3 1/2 in

Paddle "

No. of breasthooks 3 crutches 3 how are pointers compensated? By plate iron riveted to frames

What description of iron is used for the angle iron and plate iron in the vessel? Jersey Hall & Sons Co Builder's Signature

Harland & Wolff

J. Lloyd's Register Foundation

IRON 436-0221

Workmanship. Are the lands or laps of the trenchwork in all cases in breadth at least five times the diameter of the rivets in double riveted

edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? Yes

Do the edges of the carvel work and of the butts fay 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, or are they in short lengths of various thicknesses? Filled in solid

Do the holes for rivetting plate to frames, lining pieces, 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

Her Masts, Yards, &c., are in condition, and sufficient in size and length.

She has SAILS.

N^o. *Not on board*

Fore Sails,

Fore Top Sails,

Fore Topmast Stay Sails,

Main Sails,

Main Top Sails,

and

CABLES, &c.

Tested by the maker W. P. Parkes

Quidley at his Works

Chain Test 8 1/4 tons

Hemp Stream Cable Brass

Hawser

Towlines

Warp

All of quality.

Fathoms.

Inches.

ANCHORS, and their weights.

N^o. Weight.

ent g. lb.

1 45.3.16

1 39.0.0

1 50.3.24

1 14.3.13

1 4.0.18

1 3.2.16

Bower, ... Harlands Patent

Common

Stream, ...

Kedge, ...

Her Standing and Running Rigging *Not on board*, sufficient in size and in quality.

She has Long Boat and 2 Life Boats 30 feet & 2 others

The present state of the Windlass is Good. Capstan 2 good and Rudder Good Pumps b Good.

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

- DATES of Surveys held while building, as per Section 17. { 1st. On the several parts of the frame, when in place, and before the plating was wrought April 8th 1862
2nd. On the plating during the progress of riveting August 15th
3rd. When the beams were in and fastened, and before the decks were laid April 8th
4th. When the ship was complete, and before the plating was finally coated December 19th
5th. After the ship was launched February 10th 1863

{ Mode of securing the orlop beams to the frame, so that they can be easily removed to admit of large packages being stowed, and afterwards replaced without cutting out any rivets or ceiling planks.

This Vessel's keel is the same size as the "Arabian" 9 x 3 1/2 in. amidships, tapering to 8 in at ends. She has an inside stroke at middle line over keel 23 9/16 feet amidships 15 1/16 in. Also an inside stroke, on each side at bilge 19 1/2 feet, and for 15 2 feet 15 1/16 + 4 1/16 at ends, also one between orlop beam ends, and bilge 18 5 feet, and for 84 feet 14 1/16 + 4 1/16 at ends and one immediately under the ends of tween deck beams 19 2 feet on each side amidships and for 48 feet 13 1/16 to 12 1/16 at ends, also an inside stroke next to sheerstrake 24 0 feet on each side amidships 10 8 feet 13 1/16 in, 13 2 feet + 12 1/16 to 11 1/16 at ends. Middle line keelson 25 1/2 x 12 1/16 in, tapering to 10 in at ends, an additional plate riveted on top 12 x 5 8 tapering to 1/2 in at ends. An Intercostal keelson about midway between the middle line keelson, and the bilge keelson, plates 11 1/16 in to top of floors with bulk iron on top 9 x 8 1/16 for 244 feet amidships, with two angle irons 5 1/2 x 4 1/2 x 10 1/16 in riveted back to back. Bilge keelson of bulk iron 9 x 4 1/2 in for 132 feet amidships, riveted to angle irons as above. Orlop beam strainer of bulk iron 8 x 12 1/4 in riveted between two angle irons 5 1/2 x 10 1/16 in 15 3 feet on each side amidships, and single from thence to the ends, the orlop beams are double the size, being of two bars of bulk 6 x 4 x 14 1/16 + 10 1/16 in riveted back to back averaging 15 feet apart. The tween deck strainer secured to double angle irons on the frames, all fore and aft. The Main deck is of Chequered plate same as former Vessel. Harlands Patent, weighing 20 lb to the foot amidships, tapering to 15 lb to the ends of vessel. In the fore hold, a watertight iron platform is laid about 3 feet above the floors extending, from fore Peak Bulkhead to the Bulkhead, not abeam 42 feet long x 1/2 in thick riveted to beams 4 x 3 x 4 1/2 in. The shell plates are 12 feet long

The iron and workmanship are excellent.

In what manner are the surfaces preserved from oxidation? The flat of the floor inside to round the turn of bilge all fore & aft, is covered with Portland Cement, above this together with the entire of hull is coated twice, with a mixture of Red & White lead paint

I am of opinion this Vessel should be classed 12A

The amount of the Fee £ 5 : : is received by me, *M. J. Smith*

Mch 1868

Special £ 103:15 :

Certificate (if required) £ 108:15 :

Committee's Minute 13th March 1868

Character assigned A - for 12 Years

*Law of open sea
This Vessel is eligible
to be classed 12A*

12 March 1868

12019

Lloyd's Register
Foundation