

## IRON SHIP.

13932

Recd 1/2/75

No. 11021 Survey held at Sunderland Date, First Survey January 5<sup>th</sup> 1874 Last Survey January 30<sup>th</sup> 1875On the Sea Steamer "Sumida" Rule Master Brown

TONNAGE under } 1243.69 ONE, OR TWO DECKED, THREE DECKED VESSEL.

Tonnage Deck

Ditto of Third, Spar,

or Awning Deck.

Ditto of Poop, or

Raised Qr. Dk.

Ditto of Houses

on Deck

Ditto of Forecastle

Gross Tonnage

Less Crew Space

Less Engine Room

Register Tonnage

as cut on Beam

SPAR, OR AWNING DECKED VESSEL.

HALF BREADTH (moulded) ... .. 16.0

DEPTH from upper part of Keel to top of Upper Deck Beams ... .. 24.0

GIRTH of Half Midship Frame (as per Rule) ... .. 35.5

1st NUMBER ... .. 75.5

1st NUMBER, if a THREE-DECKED VESSEL ... .. 75.5

[deduct 7 feet] ... .. 168.5

LENGTH ... .. 156

2nd NUMBER ... .. 17.536

PROPORTIONS—Breadths to Length ... .. 8

Depths to Length—Upper Deck to Keel ... .. 11

Main Deck ditto ... .. 16

Built at SunderlandWhen built 1874-5 Launched Nov 25/74By whom built Robert Thompson Jun<sup>r</sup>Owners Japanese GovernmentPort belonging to YokoiDestined Voyage Yokoi

Surveyed while Building, Afloat, or in Dry Dock.

LENGTH	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	Feet.	Inches.	Power of	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
on deck as	256	1	Moulded...	32	1	top of Floors to Upper	22	2	Engines ...	...	2	2
per Rule ...	256	1	...	32	1	Deck Beams	14	2	...	...	...	...
						Do. do. Main Deck Beams	14	2	...	...	...	...

Dimensions of Ship per Register, length, 266.7 breadth, 32.1 depth, 21.8

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness ... ..	9 + 2 1/2	9 4 2/2	FLAT KEEL PLATES, breadth and thickness ... ..	36	11
STEM, moulding and thickness ... ..	9 + 2 1/2	8 1/2 + 2 1/2	PLATES in Garboard Strakes, breadth and thick-	10	10
STERN-POST for Rudder do. do. ... ..	8 1/2 + 5	8 1/2 + 5	ness from Garboard to upper part of Bilges		
for Propeller ... ..	24	24	of doubling at Bilge, or increased thick-		
Distance of Frames from moulding edge to			ness, and length applied ... ..		
moulding edge, all fore and aft ... ..			fin up. part of Bilge to lr. edge of Sh'rstrake		
			Main Sheerstrake, breadth and thickness		
			of d'bling at Sh'rstrake, & length applied		
			from Mn. to Up. or Spar Dk. Sh'rstrake.		
			Up. or Spar Dk Sh'rstrake, brdth & thickns		
			Butt Straps to outside plating, breadth & thickness		
			Lengths of Plating ... ..		
			Shifts of Plating, and Stringers ... ..		
			Gunwale Plate on ends of Awning, Spar, or		
			Upper Deck Beams, breadth and thickness...		
			Angle Iron on ditto ... ..		
			Tie Plates fore and aft, outside Hatchways		
			Diagonal Tie Plates on Beams No. of Pairs,		
			Planksheer material and scantling ... ..		
			Waterways do. do. ... ..		
			Flat of Upper Deck do. do. ... ..		
			How fastened to Beams ... ..		
			Stringer Plate on ends of Main or Middle Deck		
			Beams, breadth and thickness ... ..		
			Is the Stringer Plate attached to the outside plating?		
			Angle Irons on ditto, No. 2 ... ..		
			Tie Plates, outside Hatchways ... ..		
			Diagonal Tie Plates on Beams, No. of pairs		
			Waterways materials and scantlings ... ..		
			Flat of Middle Deck do. do. ... ..		
			How fastened to Beams ... ..		
			Stringer Plates on ends of Lower Deck, Hold or		
			Orlop Beams ... ..		
			Is the Stringer Plate attached to the outside plating?		
			Angle Irons on ditto, No. 2 ... ..		
			Stringer or Tie Plates, outside Hatchways		
			Flat of Lower Deck ... ..		
			Ceiling betwixt Decks, thickness and material ...		
			in hold do. do. ... ..		
			Main piece of Rudder, diameter at head ... ..		
			do. at heel ... ..		
			Can the Rudder be unshipped afloat? Yes		
			Bulkheads No. 4 Thickness of 6 1/2		
			Height up 3 1/2 upper deck, after one to hold beams		
			How secured to sides of ship between double frames		
			Size of Vertical Angle Irons 3 x 3 1/2 and distance apart 30 ins.		
			Are the outside Plates doubled two spaces of Frames in length? Yes		

Transoms, material. Knight-heads. Hawse Timbers. IronWindlass Iron patent Pall Bitt IronThe FRAMES extend in one length from Keel to Gunwale Riveted through plates with 3/4 x 7/8 in. Rivets, about 6 apart.The REVERSED ANGLE IRONS on floors and frames extend Across middle line to about main deck stringer and to upper deck alternatelyKEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? YesPLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 x 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 x 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 7/16 thicker than the plates they connect.Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 x 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 x 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.Breadth of laps of plating in double riveting 3 1/2 times Breadth of laps of plating in single riveting none

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?

Waterway, how secured to Beams Butts (Explain by Sketch, if necessary.)Beams of the various Decks, how secured to the sides? Turned ends riveted to frames No. of Breasthooks, 6 Crutches, 3What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Augustine Saml. WilliamsManufacturer's name or trade mark, Caldwell Iron Works Co. Ltd. - Mott

The above is a correct description.

Builder's Signature, Robert Thompson Surveyor's Signature, W. J. Williams

Surveyor to Lloyd's Register of British and Foreign Shipping.



139325m

**Workmanship.** Are the butts of plating planed or otherwise fitted? *Planed*

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*

Are the fillings between the ribs and plates solid single pieces? *Yes*

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes*

Do any rivets break into or through the seams or butts of the plating? *A few in Butts*

Masts, Bowsprit, Yards, &c., are *of wood* & in *good* condition, and sufficient in size and length. If of Iron or Steel give 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 riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit

NUMBER for EQUIPMENT <i>2016</i>		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
1 Complete Sail and	SAILS.	CABLES, &c.		270	1 1/4	5 1/4	270-1 1/4 5 1/4					
	Fore Sails,	Chain		3 links of each length tested to breaking strain of 7 1/2 tons; marked R.W.C. P.T. 1873 signed J. Hartness			Bowers	1	27.3.26	27.2.2.0	27.3.0	26 1/2 20
	Fore Top Sails,	Hmpn Strm Cbl		90	7			1	27.3.10	27.0.2.14		
	Fore Topmast Stay Sails	Hawser Chain		60					23.3.0	23.13.3.0	23.2.10	
	Main Sails,	Towlines		80	9		Stream	1	11.0.7		11.0.0	
	Main Top Sails,	Warp		90	5		Kedges	1	5.2.7		5.2.0	
		quality <i>good</i>		90				1	2.3.4		2.3.0	

Standing and Running Rigging *Wire Shump* sufficient in size and *good* in quality. She has *one* Long Boat and *4* others.

The Windlass is *good* Capstan *good* and Rudder *good* Pumps *Metal & good*

Engine Room Skylights.—How constructed? *on Bridge House* How secured in ordinary weather? *thumb screws and rods*

What arrangements for deadlights in bad weather? *Solid wood, shutters and thick circular glass*

Coal Bunker Openings.—How constructed? *Circular casting* How are lids secured? *with studs* Height above deck? *flush*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *4 Scuppers and 5 ports on each side*

Cargo Hatchways.—How formed? *Iron plate Comings and Headledges*

State size Main Hatch *16' X 12' X 13 1/2" above deck* Fore hatch *8' X 7' X 13 1/2" above deck* Quarter hatch *16' X 12' X 13 1/2" above deck*

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams? *Strong shifting earling in each Hatchway*

Hatches, If strong and efficient? *Yes*

Order for Special Survey No. *2489* DATES of Surveys held while building as per Section 18.

Date *28 March 1874*

Order for Ordinary Survey No. —

Date —

No. *40* in builder's yard.

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid...

4th. When the ship was complete, and before the plating was finally coated or cemented...

5th. After the ship was launched and equipped

*Built under B.B. and surveyed 1/4 Jan 5 Feb 3 5 12 19 20 24 Mich 2 10 24 26 30*

*Apr 4 11 17 25 May 2 5 9 12 14 20 21 27 29 June 3 3 11 15 16 19 22 29 July 3 9 10 13 15 16 22 27 29 Aug 1*

*3 5 15 31 Sep 3 10 22 Oct 1 8 13 Nov 13 17 19 24 25 Dec 2 10 17 19 Jan 4 19*

**General Remarks** (State quality of workmanship, &c.) *The workmanship is of good quality. She is a sister ship to number 69 by same Builder, Sunderland report 10929. Three strong Beams are fitted in Engine & Boiler spaces plated on top and attached to stringers with gunnet plates. Top gallant Forecastle 32 feet long, & Bridge House about 32 feet in length.*

State if *one*, *two*, *three*, decked vessel, or if *open*, or *awning decked*; and the lengths of *poop*, forecastle, or *raised quarter deck*, and the length of *hull*, on *part double bottom*.

How are the surfaces preserved from oxidation? Inside *Current to upper turn of Ribs and main beams* Outside *3 coats of paint*

I am of opinion this Vessel should be Classed *100 A. 1 2 decks 3 deck Rule*

The amount of the Entry Fee ... £ 5 : - : - is received by me, *AKK*

Special ... £ 58 : 12 : 6 *27 Jan 1875*

Certificate ...

(Travelling Expenses, if any, £ —)

Committee's Minute *2nd February 1875*

Character assigned *100 A. 1 2 decks 3 deck Rule*

*James Liburn*

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*This vessel appears to be classed as 100 A. 1 2 decks 3 deck Rule*