

No. 6572 Survey held at Sunderland Date 5 Feb 1859  
on the Ship "Alchemist" Master Thos Bennett  
Tonnage Old Built at Sunderland When built 1850 4/1859 Launched 3 Jan 19  
By whom built R Thompson & Sons Owners J. Burnett & Son  
Port belonging to Newcastle Destined Voyage  
If Surveyed while Building, Afloat, or in Dry Dock in Building

Length aloft			Extreme Breadth Outside			Depth of Hold		
140			29			19		
Feet.			Inches.			Feet.		
IN SHIP.			REQUIRED PER RULE.			IN SHIP.		
Sided.			Moulded.			Sided.		
Middle.			Middle.			Middle.		
Ends.			Ends.			Ends.		
Scantlings of Timber.			Outside.			Thickness of Plank.		
TIMBER AND SPACE			In Ship.			In Ship.		
Floors	30	13 1/2	13 1/2	11 1/2	11 1/2	Garboard Strakes	4	4
1st Foothooks	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	Garboard to Bilge	4	4
2nd Ditto	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	Bilge Planks	4 1/2	4
3rd Ditto	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	Bilge to Wales	4	4
Top Timbers	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	Wales	5	5
Deck Beams	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	Topsides	4	4
Deck Beams, length amidships	27 feet	27 feet	27 feet	27 feet	27 feet	Sheer Strakes	4	4
Hold Beams	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	Plank Sheers	4	4
Hold Beams, length amidships	27 feet	27 feet	27 feet	27 feet	27 feet	Water - Upper Deck	6 1/2	6 1/2
Keel	14 1/2	15	15	14 1/2	14 1/2	Ways - Lower Deck	6 1/2	6 1/2
Scarp of Ditto	6 feet	6 feet	6 feet	6 feet	6 feet	Ditto, faying surface against Timbers	6 1/2	6 1/2
Keelsons	18 1/2	24	15 1/2	18 1/2	15 1/2	Upper Deck	3 1/2	3 1/2
Scarp of Ditto	6 feet	6 feet	6 feet	6 feet	6 feet			

Copper			All of Yellow Metal			Copper		
Inches in Ship.			Inches required per Rule			Inches in Ship.		
Heel-Knee, and Deadwood abaft			Transoms and throats of Hooks			Hold Beam Bolts in		
Scarp of Keel	1 1/2	1 1/2	Arms of Hooks	1	1	Knees	1 1/2	1 1/2
Keelson Bolts through Keel at each Floor	1 1/2	1 1/2	Bolts thro' Bilge & Limber Strakes, or Thickstuff over Double Floors	7/8	7/8	Shelf or Clamp	1	1
Bolts through Heels of Timbers against Deadwood	7/8	7/8	Butt End Bolts	7/8	7/8	Waterway	7/8	7/8
			Pintles of the Rudder	3	3	Knees	1 1/2	1 1/2
						Shelf or Clamp	7/8	7/8
						Nails or Bolts in Flat of Deck	6 1/2	6 1/2
						Treenails	1 1/2	1 1/2

Timbering.—The Space between the Floor Timbers and Lower Foothooks is 1 1/2 Inches. The Space between the Top-Timbers is 1 1/2 Inches.

The Floors consist of German Oak The First Foothooks of German Oak midships Eng Oak at ends.

The Second Foothooks of Eng Oak The Third Foothooks and Top Timbers of Eng Oak

The Shifts of the First and Second Foothooks are not less than 1/4 of breadth N. B. When less than prescribed by the Rule, state how many.

The rest of the Shifts of the Frame are sufficient

The Frame is well squared from the First Foothook Heads upwards, and well free from sap, and from thence downwards, the frame is well square

The alternate Frames are all bolted together to the Gunwale. N. B. If not, state how bolted.

The Butts of the Timbers are all close together; their thickness not less than 1/3 of the entire moulding at that place.

The Frame is cross chocked with a Butt at each end of the chock. The Main piece of Rudder is Eng Oak

The Main Keelson is Greenheart and app free from all defects. The Main piece of Windlass is Eng Oak

The Stem, and Stern Post, consist of Stem Eng Oak, Stern Post of Teak The Transoms, Aprons, Knight Heads, and Hawse Timbers of Eng Oak

Deadwood, of Eng Oak from the keel up to the first Foothook Heads and are app free from all defects.

The Deck and Hold Beams consist of Teak, Greenheart & Eng Oak The Breasthooks of Eng Oak & Iron The Knees of Iron

Planking Outside.—From the Keel to the Height defined in Note to Table A, the Plank is Amer Elm.

From the above named Height to the Light Water Mark Dan Oak

From the Light Water Mark to the Wales Teak & Dan Oak

The Wales and Black-strakes are Teak The Topsides Teak

The Sheer-strakes and Plank-sheers Teak The Water-ways { Upper Deck Teak Lower Deck

The Decks Yellow Pine State of Good

The Shifts of the Planking are not less than 5 to 6 Feet Inches. N. B. If less than prescribed by the Rule, state whether general or partial, and if partial, in what part of the Ship.

The Planking is wrought Three between, and without step-butting.

Planking Inside.—The Limber-strakes and Bilge-strakes are German Oak

The Ceiling, Lower Hold, and between Decks German Oak Shelf Pieces and Clamps German Oak

Fastenings.—To Hold Beams Iron staple knees, six pair of staple standards, Eleven pair of knee riders, and Two pair of iron hanging knees

Deck Beams Iron staple knees, and hanging knees to each beam end.

Number of Breasthooks Seven Pointers One pair Crutches One

Butts End Bolts are of 1/2 Metal in the Bottom, and one Bolt in each Butt End through and clenched.

Bilge and Limber Strakes L. Keelsons are bolted through and clenched. Treenails of Eng Oak How Made Circular

Thickstuff over Double Floors bolted through and clenched. General Quality of Workmanship Good

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

Surveyor's Signature Robert Thompson Irons

Surveyor's Signature

Signature

510934-0034



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

She has SAILS.		CABLES, &c.		ANCHORS, and their weights.	
N <sup>o</sup> .			Fathoms. Inches.	N <sup>o</sup> .	Weight.
2	Fore Sails,	Chain <u>certificated</u> <u>proceeds</u>	270 1 1/2	Bower, .....	3 25-1-1
2	Fore Top Sails,	Hempen Stream Cable .....	00 0 1/2		24 0-20
2	Fore Topmast Stay Sails,	Hawser .....	75 1	Stream, .....	23-2-12
2	Main Sails,	Towlines .....	00 0 1/2		5-1-20
2	Main Top Sails,	Warp .....	00 0 1/2	Kedge, .....	1 1-3-26
and <u>others as usual</u>		All of <u>good</u> quality.			

Her Standing and Running Rigging are sufficient in size and good in quality.

She has 1 Long Boat and Two others

The present state of the Windlass is secure Capstan Whisk Rudder and Pumps efficient

General Remarks and Statement and Date of Repairs, if any.

DATES of Surveys  
held while building,  
as per Section 35.

1st. When the Frame is completed July 6 - 1850  
2nd. When the Beams are put in, &c. " 26 "  
3rd. { When completed, and before the } Decr. 23  
      { plank be painted or payed }

In this vessel the flat of the upper decks are fastened with nails of G. Metal and Galvanised iron, and the whole outside plating is fastened with trenails and Yellow Metal Bolts, to the entire exclusion of iron bolts and iron nails

Robert Thompson Esq

Present condition of Caulking of Bottom, Good Deck, Good and Waterways Good

If Sheathed, Doubled, Felted, or Coppered G. Metal on felt &c When last done "

I am of opinion this Vessel should be Classed 10 A 1

The Amount of the Fee.....£ 5 : : : is received by me,

Order No 777 Special .....£ 26 : 19 : : J. S.

Certificate .....£ " : " : "

Committee's Minute 8<sup>th</sup> March 1859

Character assigned Δ 1 for 10 Years  
say 10 1/2 1/2

Thomas Lawrence

J. M. Brownell



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