

## COMPOSITE SHIP.

2974

No. 2974 Survey held at

Date 10th May 1869

on the Ship *Orkham Castle*Master *A. Marshall*

Tonnage under tonnage deck

Ditto of quarter deck

Ditto of poop, fore-castle, or other erections on upper deck

Ditto of spar deck

Ditto of engine room

Gross tonnage, less crew space

Total Register tonnage, as cut on beam

Built at

When built

Launched

By whom built

Owners

Port belonging to

Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

Length aloft *125* Feet. Extreme Breadth *32.1* Feet. Depth from top of Upper Deck Beam to top of Floor *18 3/4* Feet. Power of Engines *—* No. of Decks *One Complete*  
 (Dimensions of Ship per Register, length *125* breadth *32.1* depth *18 3/4*)

	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Outside Plank.	Inches in Ship.	16th. In Ship.	Inches required per Rule.	16th. req'd per Rule.
Keel, siding and moulding	<i>14 1/4 x 15 1/2</i>	<i>14 x 15 1/2</i>			Garboard Strakes, thickness	<i>10 1/2</i>	<i>9/16</i>	<i>10 1/2</i>	<i>9/16</i>
" plate, breadth and thickness	<i>28 x 13/16</i>	<i>28 x 13/16</i>			Garboard to Topsides ditto	<i>5 1/2</i>	<i>9/16</i>	<i>5 1/2</i>	<i>9/16</i>
Stem, siding and moulding	<i>14 1/4 x 19</i>	<i>14 x 19</i>			Topsides ditto	<i>4 1/2</i>	<i>9/16</i>	<i>4 1/2</i>	<i>9/16</i>
Fore deadwood plate, breadth and thickness	<i>12 x 13/16</i>	<i>14 x 13/16</i>			Sheerstrakes ditto	<i>4 1/2</i>	<i>9/16</i>	<i>4 1/2</i>	<i>9/16</i>
Stern-post, siding and moulding	<i>14 1/4 x 19</i>	<i>14 x 15 1/2</i>			Planksheers ditto	<i>2</i>	<i>9/16</i>	<i>2</i>	<i>9/16</i>
After deadwood plate, breadth and thickness	<i>12 x 13/16</i>	<i>14 x 13/16</i>			Water-way Upper Deck				
Distance of Frames from moulding edge to moulding edge, all fore and aft	<i>21</i>	<i>21</i>			Water-way Lower Deck				
Frames, Size of Angle Iron, single or double	<i>2 3/2</i>	<i>8/16</i>	<i>2 3/2</i>	<i>8/16</i>	Iron Sheerstrake, breadth and thickness	<i>30</i>	<i>9/16</i>	<i>30</i>	<i>9/16</i>
" Reversed Iron, if to every frame or every frame	<i>3</i>	<i>3/32</i>	<i>3</i>	<i>3/32</i>	" Bilge Plate ditto	<i>20 1/2</i>	<i>9/16</i>	<i>19 3/4</i>	<i>9/16</i>
Floors, depth and thickness of Floor Plate at Mid line	<i>20 3/4</i>	<i>8/16</i>	<i>20 3/4</i>	<i>8/16</i>	Diagonal Plates on Frames	<i>10</i>	<i>9/16</i>	<i>10</i>	<i>9/16</i>
" Ditto ditto at Bilge Keelson	<i>11</i>	<i>8/16</i>	<i>11</i>	<i>8/16</i>	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	<i>25 1/2</i>	<i>9/16</i>	<i>25</i>	<i>9/16</i>
Size of Reversed Angle Iron, and No. at top of Floor Plate	<i>3</i>	<i>3/32</i>	<i>3</i>	<i>3/32</i>	Angle Iron on ditto	<i>4 1/2 x 3 1/2 x 7/16</i>	<i>9/16</i>	<i>4 1/2 x 3 1/2 x 7/16</i>	<i>9/16</i>
Size of Wood, siding & moulding, at Mid line					Fore and aft Tie Plates on Upper Deck Beams, outside Hatchways	<i>11 1/2</i>	<i>9/16</i>	<i>11 1/4</i>	<i>9/16</i>
ms. Deck (No. ) double Angle Iron, Plate, Tee, or Bulb Iron	<i>7 1/2</i>	<i>15/32</i>	<i>7 1/2</i>	<i>15/32</i>	Diagonal Tie Plates on	<i>11 1/2</i>	<i>9/16</i>	<i>11 1/4</i>	<i>9/16</i>
" double or single Angle Iron, on upper edge	<i>2 1/2</i>	<i>5/16</i>	<i>2 1/2</i>	<i>5/16</i>	Flat of Upper Deck, thickness	<i>3 3/4</i>	<i>9/16</i>	<i>3 3/4</i>	<i>9/16</i>
" average space between	<i>42</i>		<i>42</i>		Ceiling betwixt Decks, thickness	<i>2 1/2</i>	<i>9/16</i>	<i>2 1/2</i>	<i>9/16</i>
" Hold, or Lower Deck (No. 2nd frame) double Angle, Tee, Plate, or Bulb Iron	<i>7 1/2</i>	<i>15/32</i>	<i>7 1/2</i>	<i>15/32</i>	" in Hold, thickness	<i>2 1/2</i>	<i>9/16</i>	<i>2 1/2</i>	<i>9/16</i>
" double or single Angle Iron, on upper edge	<i>2 1/2</i>	<i>5/16</i>	<i>2 1/2</i>	<i>5/16</i>	Clamps or Spirketting				
" average space between	<i>42</i>		<i>42</i>		Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	<i>19</i>	<i>9/16</i>	<i>19</i>	<i>9/16</i>
Keelson, single or double plate, box, or intercostal	<i>14</i>	<i>12/16</i>	<i>14</i>	<i>12/16</i>	Fore and aft Tie Plates outside Hatchways, on Hold or Lower Deck Beams	<i>11 1/2</i>	<i>9/16</i>	<i>11 1/4</i>	<i>9/16</i>
Size of Plates	<i>13</i>	<i>8/16</i>	<i>13</i>	<i>8/16</i>	Stringers in Hold	<i>4 1/2 x 3 1/2 x 7/16</i>	<i>9/16</i>	<i>4 1/2 x 3 1/2 x 7/16</i>	<i>9/16</i>
Size of Angle Irons	<i>4 1/2 x 3 1/2 x 7/16</i>	<i>9/16</i>	<i>4 1/2</i>	<i>3/2</i>	State if all Butts of the foregoing are shifted properly from each other	<i>Yes</i>			
Size of Wood, siding and moulding					Flat of Lower Deck, thickness	<i>3</i>			
Side, single or double, plate, box, or intercostal	<i>13</i>	<i>8/16</i>	<i>13</i>	<i>8/16</i>	Diameter of Hold Pillars	<i>3</i>		<i>3 1/4</i>	
Bilge (No. One) at each Bilge, single, or double, plate or box	<i>4 1/2</i>	<i>3/2</i>	<i>4 1/2</i>	<i>3/2</i>	Main piece of Rudder, diameter at head	<i>15 1/2</i>		<i>15 1/2</i>	
	<i>8 1/2 x 3 1/2</i>	<i>9/16</i>	<i>8 1/2 x 3 1/2</i>	<i>9/16</i>	(Can the Rudder be unshipped afloat)	<i>Yes</i>			

The Keel consists of *Scotch elm* The Stem *Scotch elm* Stern Post *Scotch elm* Apron *Scotch elm*  
 Inner Stern Post *Scotch elm* Deadwood *Scotch elm* Knight-heads, and Hawse Timbers *Scotch elm*  
 The Floors *Iron plates* Wood-Frames *Scotch elm* and Ceiling upon them *Scotch elm*  
 Beams *of bulb-iron* and Keelsons *Iron* and are *found* free from all defects.

Planking Outside.—From the Keel to the Height of one-fifth the depth of Hold as per Table I *Scotch elm*  
 Ditto ditto from Keel to the Height of two-fifths the depth of Hold *Scotch elm and Pear* (see Sketch)  
 Ditto ditto from two-fifths the depth of Hold to Gunwale *Pear*

The Upper Deck Waterway *Iron plates* Spirketting *None* Planksheer *Scotch elm and Roughtree Timbers* *Iron plates*  
 The Main Piece of Rudder *Scotch elm* Windlass *Iron and Balast* and Pall Bitt *plate 9/16. Base 13/16 x 1/2*  
 The Decks *yellow pine* State of *Good & New* How fastened to Beams *by Nails and Screws (patented iron)*  
 The Shifts of the Planking are not less than *7* Feet *0* 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-buttting.

Planking Inside.—The Limber-strakes and Bilge-strakes are *Green heart*  
 The Ceiling, Lower Hold, and between Decks *Scotch elm and hold pine battens above* Shelf pieces and Clamps  
 Butt Straps of Keel Plates, Keelsons, Stringer and Tie Plates, of every description, are they of proper dimensions, and Rivetted in accordance with the Rules? *Yes* State which Table *H Set 4* double or single rivetting exists.

Planksheer, how secured to the plating of the sides? *See approved tracing of midship section*  
 Waterway " " planksheer and to the Beams? *if necessary.* *approved to report.*  
 Deck Beams, how secured to the side? *By three plates forged out of bulb-iron beams and riveted to frames*  
 Hold or Lower Deck Beams ditto? *a a a a*  
 General Quality of Workmanship *Good* No. of breasthooks *4* crutches *at all angles and rule lines*  
 What description of Iron is used for the Frames, Beams, Keelsons, Stringer and Tie Plates, Outside Plating, Rivets, &c.? *—*  
 Manufacturer's name or trade mark *Mossend*

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

Builder's Signature

Surveyor's Signature

GLS/44-0232



Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, Galvanized Iron, or Iron, and Rivets.

Copper or Y.M. in Ship.			Iron in Ship.	Inches required per Rule	Copper or Y.M. in Ship.			Iron in Ship.	Inches required per Rule	Copper or Y.M. in Ship.			Iron in Ship.	Inches required per Rule
Deadwood forward and aft ..	1 1/8	—	1 1/8	Transoms and throats of Hooks	—	—	—	Pintles of the Rudder .....	3 1/2	—	3 1/4	—	—	—
Scarphs of Keel, N° 8	1 1/8 & 1 1/4	—	1 1/4	Arms of Hooks .....	—	—	—	Hold Beam { Waterway ...	—	—	—	—	—	—
Keelson Bolts through Keel at each Floor .....	—	—	—	Thro' Frames and Planking...	1 1/4	1 1/4	1 1/4	Bolts in { Knees .....	—	—	—	—	—	—
Bolts through Iron Keel Plate and Wood Keel .....	1 1/8	—	1 1/8	Butt End Bolts ..	1 1/4	1 1/4	1 1/4	Shelf or Clamp	—	—	—	—	—	—
Garboard Bolts Athwartship..	1 1/4	at 1 1/2	1 1/4	Rivets .....	1 3/4 & 1 1/8	1 3/4 & 1 1/8	1 3/4 & 1 1/8	Deck Beam { Waterway ...	—	—	—	—	—	—
								Bolts in { Knees .....	—	—	—	—	—	—
								Shelf or Clamp	—	—	—	—	—	—
								Nails or Bolts in Flat of Deck	—	3 1/6	—	—	—	—

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.

State also Length and Diameter of Lower Masts and Bowsprit

State also Length and Diameter of Lower Masts and Bowsprit Fore 41 2/4 in. Main 74 1/2 ft. 24 in. Mizzen 69 ft. 10 1/2 in. Bowsprit  
Fore, Main, Mizzen Masts of Iron each of 3 plates excepting Mizzen 2  
plates 7/16 Lands 4 in double rivetted Clincher, butts treble rivetted Carvel  
Fore & Main lower yards of Iron 5/16 & 3/16. Mizzen yard 5/16 & 4/16. Fore & Main Lower  
topsail yards of Steel 5/16 & 4/16 in.  
SHEER SALES  
GARDENS

She has SAILS.

No.	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	Fore Sails,	Chain .....	135	1 1/2	40 1/2	1 1/16	4 1/2	3d May 1869	3	21.1.0	21.16.1.0	21	21 1/16
	Fore Top Sails,	Long's 55-55	135	1 1/2	40 1/2			Bowers .....	3	21.1.0	21.16.1.0	21	21 1/16
	Fore Topmast Stay Sails,	Verdict as proof						" 3864		21.0.10	21.14.0.0	21	21 1/16
	Main Sails,	Hempes Stream Cable..	60	13 1/16	128 1/16			" 3866		18.0.2	19.0.2.0	18 1/2	18 1/2
	Main Top Sails,	Hawser .....	90	9 1/2	9 1/2	9 1/2		Stream .....	1	9.0.16	-	9.0.0	-
		Towlines .....	90	5	5	4		Kedres .....	2	4.1.20	-	4.2.0	-
		Warp .....	90	4	4	4							
		All of 1860 quality.	90	4	4	4							

Her Standing and Running Rigging *of wire and hemp* sufficient in size and

She has 1 Long Boat and 3 other.

The present state of the Windlass is good Capstan Two of them and Rudder good Pumps Adams' Patent  
Double action and bilge pumps

## Order for Special Survey

No. 544 DATES of

Date Nov 11/68 Surveys held

Order for Ordinary Survey

No. ✓ while building

Date ✓

1st. Examination of the wood keel, stem, stern post, and deadwood before they are coated

2nd. Of the frame before it is painted, strapped, or plated

3rd. Of all the beams, stringers, plates, &c., when in place, rivetted-up ready to receive the planking

4th. When the vessel is planked outside, dubbed fair, and all the fastenings completed, but before she is either caulked, coated, or cemented, so that the inside and outside of the planking, and the bolts and their nuts, may be carefully examined

5th. When the vessel is caulked and completed

6th. When the vessel is launched and equipped

State if she has a Spar Deck

No.

Poop

Ma

## Forecastle

02

mad.

189

General Remarks.

So far as I can examine this vessel she appears to be eligible for the Contemplated Class 17A. The equipment has yet to be completed.

25

*Flaws, Warps and Anchors Examined  
by me J. D.*

In what manner are the surfaces of Iron Work preserved from oxidation inside and outside

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

If Sheathed, Doubled, Felted, or Coppered yellow-metal (no. 1) When last done

*I am of opinion this Vessel should be Classed*

The Amount of the Fee.....£ 5 : 3 : 3 is received by me.

June 1886

Special ..... £ *34*: *19*: "

Certificate . . . . £ *Gratuity*:

Committee's Minute 8<sup>th</sup> June 1869

*Character assigned*

21 for 17 years  
at the

This W<sup>ill</sup> appears  
to be eligible to be  
Clasped and to come under  
above W<sup>ill</sup> = 17<sup>th</sup> Dec 1891