

25 MAR. 93

SURVEYOR.

Sailing Vessel. ~~IRON OR~~ STEEL SAILING SHIP.

(Received at London Office

26 MAR. 92

Date of completion of Report 23 March 192 Port of LIVERPOOL.

No. 38291 Survey held at LIVERPOOL.

Date of First Survey July 16/91

Last Survey 23 March 1892

On the Steel Barque Osborne

Rig Barque 4 Masts

TONNAGE under Tonnage Deck 2931.27

ONE OR TWO DECKED VESSEL.

Master S. H. P. Atkinson

Do. of Poop 103.45

CLASS 100A1

Year of Appointment 1892

Do of raised (or) Dk. or Break

Built at Liverpool

Do. of Bridge House 120.01

Half Breadth (moulded) 22.916

When built 1892 Launched 30 January

Do. of Houses on Deck 5.75

Depth from upper part of Keel to top of Upper Deck Beams 28.416

By whom built W. A. Potter Sons

Do. of masts & rigging 5.23

Girth of Half Midship Frame (as per Rule) 45.550

Owners The Sailing Ship Osborne & Co. Ltd.

Do of Forecastle

1st Number 96.882

Managers Messrs Marshall & Co. (1891)

Gross Tonnage 3165.65

Length 312

Residence Liverpool

Less Crew Space 95.36

2nd Number 30.227

Port belonging to Liverpool

TONNAGE FOR FEES 3070.29

Proportions—Breadths to Length 6807

Less Navigation spaces 84.11

Depths to Length—Upper Deck to top of Keel 10979

Register Tonnage 2986.18

Destined Voyage Calcutta

Surveyed while Building, Afloat, in Dry Dock

LENGTH on deck as per rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH—Top of Floors to Upper Deck Beams	Feet.	Inches.	No. of Decks with Flat laid	No. of Tiers of Beams
312	0		45	10		25	5		2	2

Dimensions of Ship per Register, Length 325.0 breadth 46.0 depth 25.2 Moulded depth, ft. 27 in. 6 Round up of Beam 12 ins.

FORGINGS AND CASTINGS.

KEEL, Bar or Side Plates, depth and thickness

10 x 3 1/4

10 x 3 1/4

STEM, moulding and thickness

10 x 3 1/4

10 x 3 1/4

STERN-POST, do. do.

10 x 3 1/4

10 x 3 1/4

MAIN-PIECE OF RUDDER, diameter at head

7 3/4

7 1/2

" " " at heel

3 3/4

3 3/4

RUDDER, how constructed Iron frame plates

Can the Rudder be unshipped afloat? Yes

FRAMING.

FRAME, Angles, or 7/8" for 3/4 length amids.

5 1/2 3 1/2 9

5 1/2 3 1/2 9

Do. for 3/4 at each end

5 1/2 3 1/2 8

5 1/2 3 1/2 8

Do. for 1/4 at each end

24 - - 24 - -

24 - - 24 - -

Distance of Frames from moulding edge to

24 - - 24 - -

24 - - 24 - -

moulding edge, all fore and aft

4 3 1/2 9

4 3 1/2 9

CURVED FRAME, Angles

36 - 10 29 - 10

36 - 10 29 - 10

S, depth and thickness of Floor Plate

18 - - 14 1/2 - -

18 - - 14 1/2 - -

at mid line for 3/4 length amidships

58 - - 58 - -

58 - - 58 - -

Thickness at the ends of vessel

18 - - 14 1/2 - -

18 - - 14 1/2 - -

depth at 3/4 the half breadth, as per Rule

58 - - 58 - -

58 - - 58 - -

height extended at the Bilges

11 - 10 11 - 10

11 - 10 11 - 10

BILGES & BRACKETS, in Laminated Boards

4.8 - - 4.8 - -

4.8 - - 4.8 - -

ENTIRE STRIPPER, in V. Strips, 1/4" thick

11 - 10 11 - 10

11 - 10 11 - 10

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KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above

2.2

14

2.2

14

" " " " " " "

1.4

14

1.4

14

" " " " " " "

6 1/2

4

6 1/2

4

" " " " " " "

6 1/2

4

6 1/2

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3 1/2

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BULKHEADS. No. in Vessel. Reqd. by Rule. Ceiling betwixt Decks, thickness and material. 3 1/2 in hold 2 1/2 do. R. do. Pine. W. T. BULKHEADS. 7/20 to 4/20. Vrtcl. 5/2 x 3/2 x 9 30. Hrzntl. 5/2 x 3/2 x 9 4 ft. To main deck. Double frames. Number of Breasthooks 5. Crutches 4. Are the outside Plates doubled two spaces of Frames in length? Yes. The FRAMES extend in one length from Keel to gunwale. Riveted through Plates with 7/8 in. Rivets, about 6 apart. The REVERSED ANGLES on floors and frames extend from middle line to main deck and to Forecastle deck alternately. RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c. Garboard, double riveted to Bar Keel or Flat Plate, 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 7/8 in. diameter, averaging 3 3/8 ins. from centre to centre. Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; with rivets 7/8 in. dia., averaging 3 1/8 ins. from cr. to cr. Butts of all Strakes at Bilge for 3/4 length, treble riveted with Butt Straps 4/20 thicker than the plates they connect. Edges from Bilge to Sheerstrake, worked clencher, double or treble riveted; with rivets 7/8 in. diameter, averaging 3 3/8 ins. from centre to centre. Butts from Bilge to Sheerstrake, worked carvel, treble or double riveted; with rivets 7/8 in. dia., averaging 3 1/8 ins. from cr. to cr. Edges of Sheerstrake, double riveted. Butts of Sheerstrake, treble riveted for whole length. Butts of Main Stringer Plate, treble riveted for whole length. Butts of Inner Bottom Plating, treble riveted for whole length. Breadth of edge laps of Shell Plating in double riveting 6 1/2. Breadth of edge laps of Shell Plating in single riveting 8 1/2. Butt Straps of Shell Plating, breadth and thickness 2 1/2 x 7/16 to 16 3/4 x 5/16. Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted. Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. Siemens Steel made by Steel Co. of Scotland. Consult. Foreman Long & Butcher. Workmanship. Are the butts of plating planed or otherwise fitted? Planed. Is the riveted work properly closed? Yes. Are the liners between the frames 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. Are the butts of Plating, Stringers, &c., properly shifted and strapped or lapped? Yes.

		DIAMETER AND THICKNESS.				Number of Plates in Row.	ANGLES.		RIVETING.	
		Material.	Total length.	At Partners.	Heel.	Hounds.	Head.	Number.	Size.	Seams.
LOWER MASTS.....	Fore	Steel	90.7	31	31	31	24	2	4 1/2 x 3 x 9	Single
	Main	"	96.11	32	32	32	24	2	4 1/2 x 3 x 9	"
	Mizen	"	95.11	31	31	31	24	2	4 1/2 x 3 x 9	"
	Jigger	Steel	149.1	24	24	21	15	2	3 x 3 x 6	Treble and double above lower masthead
BOWSPRIT	Fore	Steel	59.2	27 1/2	19	19	15	2	4 1/2 x 3 x 9	Single
	Main	"	58.9	20 1/2	20 1/2	20 1/2	15	2	3 x 3 x 6	Treble
	Mizen	"	58.9	20 1/2	20 1/2	20 1/2	15	2	3 x 3 x 6	"
	Jigger	"	-	-	-	-	-	-	-	"
TOPMASTS	Fore	Steel	92.0	At Centre	23	At Ends	10	2	3 x 3 x 6	All length
	Main	"	92.0	"	23	"	10	2	3 x 3 x 6	Single
	Mizen	"	92.0	"	23	"	10	2	3 x 3 x 6	"
	Jigger	"	-	"	-	-	-	-	-	"
YARDS.....	Fore	Steel	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet at Centre
	Main	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
	Mizen	"	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Jigger	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
FORE TOPMAST YARDS	Fore	Steel	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Main	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
	Mizen	"	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Jigger	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
MAIN	Fore	Steel	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Main	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
	Mizen	"	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Jigger	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
MIZEN	Fore	Steel	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Main	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
	Mizen	"	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Jigger	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
JIGGER.....	Fore	Steel	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Main	"	74.0	"	18	"	8	2	3 x 3 x 6	Single
	Mizen	"	85.6	"	21	"	9	2	3 x 3 x 6	For 24 feet
	Jigger	"	74.0	"	18	"	8	2	3 x 3 x 6	Single

Remainder of Spars Pitch Pine. Rigging. Material and Size, Shrouds Steel 4 3/4. Stays 4 3/4. Quality Good. Sails, Two. Suit of all. Sails, except Stay Sail.

EQUIPMENT No. 32242 LETTER X										ANCHORS.	
Number of Certificate.		WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.			Description of Anchor.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	
14202	1st Bower	42	1	4	10	3	0	37	8	0	Rodriguez
14203	2nd "	40	1	0	10	2	0	35	18	3	"
14204	3rd "	38	1	7	9	1	17	34	14	2	"
	4th "										"
	Collective weight	160	3	11							
14207	Stream	13	2	10	3	1	7	15	5	3	Preliminary
14206	Kedge	6	3	0	1	3	0	9	0	0	"
14205	2nd Kedge	3	2	4	3	1	8	6	0	3	"

CHAIN CABLES. Number of Certificate. 5553. Fathoms. 150. Size. 2 3/4. Test per Certificate. 20.10.0. Weight of Chain Cable. 364.3.5. Fathoms & Size. 300.2 3/4. Description. Steel link H. Wood 16. Makers of Cables. H. Wood & Co. Where and when tested, and Superintendent. Chester 24/2/92. Material. 90. Fathoms. 90. Size. 2 3/4. Fathoms & Size. 2 3/4. HAWSERS AND WARPS. Number of Certificate. 5560. Fathoms. 150. Size. 2 3/4. Test per Certificate. 20.10.0. Weight of Chain Cable. 364.1.16. Fathoms & Size. 120.1 1/2. Description. Steel link H. Wood 16. Makers of Cables. H. Wood & Co. Where and when tested, and Superintendent. Tipton 31/12/90. Material. 90. Fathoms. 90. Size. 2 3/4. Fathoms & Size. 2 3/4. Boats. Two life boats and two others. Pumps. Number. Two. Windlass. Clock. Scuppers. Number and dimensions of Freeing Ports. Five. Cargo Hatchways. How formed? Iron. State size No. 1 Hatch (Forward). 7.6 x 8.0 x 20 1/2. No. 2 Hatch. 15.5 x 10.0. Number of Web Plates, Shifting Beams, and Fore and Afters to each hatch. Web plates in No. 2 & 3 Hatchways and wood fore & afters in each. Bulwarks. Height above deck and description. 5.4. The above is a correct description. Builder's Signature. M. J. Potter & Sons. Surveyor's Signature. J. Lawrence. Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No. *220*
Date *18. 6. 91*
Order for Ordinary Survey No. *151*
Date *18. 6. 91*
No. *151* in builder's yard.

DATES OF SURVEYS
held while building
as per Section 18.

- 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

1891. July 16. 21. 24. 26. Aug. 5. 6. 7. 11. 12. 17. 20.
28. Sep. 1. 7. 20. 24. Oct. 5. 12. 17. 21. 25. Nov. 5. 9. 12. 19.
24. 25. Dec. 3. 5. 7. 16. 18. 29. 1892. Jan. 4. 12. 22. 23.
Feb. 2. 5. 12. 24. Mar. 3. 4. 9. 10. 11. 15. 19. 21. 23.
Total No. of Visits *50*

State dates and initials of letters respecting this case. *No. 12/4/91. 2/5/91. 14/3/91.*

General Remarks (State quality of workmanship, &c.)

The workmanship is good. The Vessel is constructed in accordance with the approved drawings attached. The Sheestake is 1/20 thicker than required by the Rules, the Sheestake butt straps are fitted outside. The floor plates are 7' deeper than required by Rule. The Stul used in construction has been tested and stamped as required by Committee.

PARTICULARS FOR RECORD IN THE REGISTER BOOK.

Length of Poop *35.6* ft., R.Q.D. or Break *—* ft., Bridge Dk. *40.0* ft., Forecastle *31.0* ft. (in feet and tenths).
No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book *One Iron deck covered with 3 3/4" Pine Two decks, two tiers of beams.*
Official No. *99377* Signal Letters *M N B D*

PARTICULARS OF WATER BALLAST.

Double bottom, aft, length *—* and water capacity in tons *—* Double bottom, amidships, length *—* and water capacity in tons *—*
Double bottom, forward, length *—* and water capacity in tons *—*
Double bottom, constructed on the cellular system, length *—* and water capacity in tons *—*
Fore peak tank, water capacity in tons *—* After peak tank, water capacity in tons *—*
Midship deep tank, length *—* and water capacity in tons *—* Other tanks, if fitted, length *—* and water capacity in tons *—*
The above have *—* been tested as required by the Rules.
(If necessary, furnish further information by sketch.)
How are the surfaces preserved from oxidation? Inside *Cement + Paint* Outside *Paint*

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated *22. 6. 92.*
State if marked on Vessel's sides in accordance with Notice No. 572 *Yes Verified 21/3/92*
The amount of Entry Fee *£ 5 : 0* is received by me, *WLL*
Special *£ 101 : 15 : 0* *25/3/1892*
Certificate* *£ :*
Travelling Expenses, if any *£ :*
I am of opinion this Vessel should be Classed ** 100A Steel*
Certificate to be sent to *LIVERPOOL*
J. Lawrence
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *LIVERPOOL. 25 MAR. 92*
Character assigned ** 100A Steel. 2 tiers Bms. 2 Dks (1 Iron w.s.) 1 Bek H² Cem. L & C P.*