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IRON SHIP.

(Received at London Office, WEDNES 28 JULY 1886)

3237

No. 3237 Survey held at Belfast Date, First Survey Feby 15th 86 Last Survey 9th August 1886

On the Iron Screw Steamer "Elgiva"

TONNAGE under Tonnage Deck	504.01
Ditto of ~~Third, Spar, or Awning Deck~~ Bridge	95.37
Ditto of ~~Poop, or~~ Raised Qr. Dk.	40.16
Ditto of Houses on Deck	6.75
…o of Forecastle	15.13
Hatchways	6.27
…s Tonnage	667.70
Crew Space	25.20
	642.50
Engine Room	213.66
…ister Tonnage cut on Beam	428.84

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.

	Feet.
Half Breadth (moulded)	13.
Depth from upper part of Keel to top of Upper Deck Beams	15.2
Girth of Half Midship Frame (as per Rule)	25.75
1st Number	53.95
1st Number, if a 3-Decked Vessel .. deduct 7 feet	–
Length	178.84
2nd Number	9648.4
Proportions— Breadths to Length	6.8
Depths to Length—Upper Deck to Keel	11.7
Main Deck ditto	–

Master John Glass

Built at Belfast

When built 1886 Launched July 7th

By whom built Workman, Clark & Co

Owners Colvils, Lowden & Co

Residence Glasgow

Port belonging to Glasgow

Destined Voyage Labrador

If Surveyed while Building, Afloat, or in Dry Dock. Specially surveyed while Building

…NGTH …deck as …r Rule … Feet 178 Inches 10 — BREADTH— Moulded … Feet 26 Inches · — DEPTH top of Floors to Upper Deck Beams, Do. do. Main Deck Beams … Feet 13 Inches 11 — Power of Engines … Horse 95

N^o. of Decks with flat laid One
N^o. of Tiers of Beams One

…ensions of Ship per Register, length, 180.6 breadth, 26.2 depth, 13.7 Depth moulded 14.9½

	Inches in Ship.			Inches per Rule.		
…EL, depth and thickness	7½ × 2⅝			7½ × 2⅝		
…EM, moulding and thickness	6¾ × 2⅝			6¾ × 2⅝		
…ERN-POST for Rudder do. do.	6¾ × 4¼			6¾ × 4¼		
" " for Propeller	6¾ × 4¼			6¾ × 4¼		
…tance of Frames from moulding edge to moulding edge, all fore and aft	22			22		
	(Class 100 A)					
	Inches. In Ship.	Inches. In Ship	16ths. In Ship	Inches per Rule	Inches per Rule	16ths per Rule
…AMES, Angle Iron, for ⅗ length amidships	3½	3	6	3½	3	6
…o. for ⅕ at each end	3½	3	5	3½	3	5
…VERSED FRAMES, Angle Iron	3	2½	5	3	2½	5
…OORS, depth and thickness of Floor Plate … mid line for half length amidships	15½ in ℄ B op		6 / 7	15½ in ℄ B op		6 / 7
thickness at the ends of vessel						
depth at ¾ the half-bdth. as per Rule	10½			7¾		
height extended at the Bilges	31			31		
…AMS, Upper, ~~Spar, or Awning~~ Deck …le ~~or d'ble~~ Ang. Iron, ~~Plate or Tee Bulb Iron~~ ~~…le or double Angle Iron on Upper edge~~	5 Hatch beams 6 bulb	3	6 / 6	5 Hatch beams 6 bulb	3	6 / 6
…verage space	22			22		
…AMS, Main, or Middle Deck …le or d'ble Ang. Iron, Plate or Tee Bulb Iron …le, or double Angle Iron, on Upper Edge						
…verage space						
…AMS, Lower Deck— …le or d'ble Ang. Iron, Plate or Tee Bulb Iron …le or double Angle Iron on Upper Edge						
…verage space						
…AMS, Hold, ~~or Orlop~~ In way of R. Q. D^k web frames in lieu of frames …le or d'ble Ang. Iron, Plate or Tee Bulb Iron …le or double Angle Iron on Upper Edge				7 bulb / 3	3	7 / 6
…verage space	As shown on plan			as approved		
…ELSONS Centre line, single ~~or double~~ plate, ~~box, or Intercostal, Plates~~	12		9	12		9
Rider Plate	8½		9	8½		9
Bulb Plate to Intercostal Keelson	–			–		
Angle Irons	4	3	6	4	3	6
Double Angle Iron Side Keelson	–					
Side ~~Intercostal~~ Plate … wash			5			5
do. Angle Irons	–					
Attached to outside plating with angle iron	–					
…GE Angle Irons	4	3	6	4	3	6
do. Bulb Iron	6 for ½		6	6 for ½		6
do. Intercostal plates riveted to plating for – length	–					
…GE STRINGER Angle Irons	4	3	6	4	3	6
Intercostal plates riveted to plating for – length	–					
… STRINGER Angle Irons	4	3	6	4	3	6
" Plate	12 × 7			12 × 7		

	Inches in Ship	16ths. In Ship.	Inches per Rule	16ths. per Rule
Flat Keel Plates, breadth and thickness	–			
PLATES in Garboard Strakes, br'dth & thickness	32	9	32	9
,, From Garboard to upper part of Bilges		7-8-9		7-8-9
,, Of d'bling at Bilge, or increased thickness, and length applied	1 Str	1/16	1 Str	1/16
,, From up. prt of Bilge to lr. edge of Sh'rstrake		7-8		7-8
,, Main Sheerstrake, breadth and thickness	33	11	33	11
,, Of d'blng at Sh'stk. & lng. applied				
,, From M'n. to Upr. or Spar Dk. Sh'rstrake				
,, Up. or Spar Dk Sh'rstrake, brdth & thickn'ss				
Butt Straps to outside plating, breadth & thickness	16¾-8	12-6	16¾-8	12-6
Lengths of Plating	8 spaces		5 spaces	
Shifts of Plating, and Stringers	2	"	2	"
Gunwale Plate on ends of ~~Awning, Spar, or~~ Upper Deck Beams, breadth and thickness	25	7	25	7
Angle Iron on ditto	4 × 3 × 6		4 × 3 × 6	
Tie Plates fore and aft, outside Hatchways	–			
Diagonal Tie Plates on Beams No. of Pairs				
Flat of Up., ~~Spar, or Awning~~ Dk.*	Iron	5	Iron	5
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.				
Tie Plates, outside Hatchways				
Diagonal Tie Plates on Beams, No. of pairs				
Flat of Middle Deck* do. do.				
How fastened to Beams				
Stringer Plates ~~on ends of Lower Deck, Hold or Orlop Beams~~ In way of R. Q. D^k	22	6	22	6
Face plate	7½	7	7½	7
Is the Stringer Plate attached to the outside plating?	Yes		As required	
Angle Irons on ditto, No. 4 … 2 ×	3½ × 3½ × 7		3½ × 3½ × 7	
Stringer or Tie Plates, outside Hatchways 2 ×	4 × 3 × 6		4 × 3 × 6	
Flat of Lower Deck*				
Ceiling betwixt Decks, thickness and material	6 × 2 Spruce			
" in hold do. do.	2½	R. P.	2½	
Main piece of Rudder, diameter at head	4½		4½	
do. at heel	2⅞ bushed with steel to 2¾		2¾	
Can the Rudder be unshipped afloat? Yes				
Bulkheads No. 4 No. per Rule 4				5

State clearly where plating is of alternate thicknesses—as distinguished from diminished thickness at ends of vessel.

* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

" Thickness of 5/16

" Height up Upper deck

" How secured to sides of ship between double frames

" Size of Vertical Angle Irons 3½ × 3 × ⅜ and distance apart 30 ins.

" Are the outside Plates doubled two spaces of Frames in length? Yes

…RAMES extend in one length from Keel to gunwale Riveted through plates with ¾ in. Rivets, about 6 apart.

REVERSED ANGLE IRONS on floors and frames extend across middle line to Bilge stringer and to gunwale alternately

…LSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes

…TING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 5 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets ¾ in. diameter, averaging 3⅝ ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets ¾ in. diameter averaging 3 ins. from centre to centre.

Butts of Two Strakes at Bilge for half length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.

Edges from Bilge to Main Sheerstrake, worked clencher, double and ~~or~~ single riveted; with rivets ¾ in. diameter, averaging 3⅝ ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets ¾ in. diameter, averaging 3 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 ½ length amidships. Butts of Upper or Spar Sheerstrake, treble riveted – length amidships.

Butts of Main Stringer Plate, treble riveted for ½ length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for – length.

Breadth of laps of plating in double riveting 4½ Breadth of laps of plating in single riveting 2½

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double ~~or single~~ Riveted? Treble & double No. of Breasthooks, 3 Crutches, 3 & deep floors

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Best

Manufacturer's name or trade mark, Frames, Rev. bars & Beams "Coates Iron & Steel C^o"; Keelson, deck & Tank plates "W. Hartlepool", Keelson angles "Phoenix Iron Works"; Outside plating, Floors & Bulk^do "W. Stockton".

The above is a correct description.

Builder's Signature, PRO WORKMAN CLARK & CO. (LIMITED) John Cowel.

Surveyor's Signature, James Turpin

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

ROBERT EDMUND TAYLOR & SON Commercial and General Steam Printers, 19, Old Street, Goswell Road, E.C., London.

BELS3-0288

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

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.

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? very few

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

State also Length and Diameter of Lower Masts and Bowsprit Rigged as a schooner, as auxiliary to steam power, with two pole masts of pitch pine, extreme lengths 80 feet and 76 feet by 15¼ ins. in diameter.

NUMBER for EQUIPMENT 10613 (i)

SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntdt.
N°.	Chain ..... (State Machine where Tested, Date, or No. of Certificate, & Name of Superintendant.)	105	1 3/16	38 ton 25 3/8	1 3/16	June 7. 86
Fore Sails,		90	1 3/16	"	"	" 7 "
Fore Top Sails,	Iron Stream Chain or Steel Wire ..	60	13/16	14 5/10 14 5/10	13/16	May 24 "
Fore Topmast Stay Sails,	or Hempen Strm Cable	Tipton E.R. Isett Surveyor				
	Towline, Hemp. or Steel Wire ..					
Main Sails,	Hawser	75	8½		7 5/8	
Main Top Sails, and	Warp	90	6½		6 7/8	
	quality Good					

ANCHORS.	N°.	Weight. Ex. Stock.	Test per Certificate	W'ght req'd per Rule.	Machine Tested & Surv
Bower Anchors (State Machine where Tested, Date, or No. of Certificate, & Name of Superintendant.)	1	12.3.0 2.2.0	14.10.2.14	12 cwt	May
	1	12.0.21 2.1.7	14.1.2.14	12	"
	1	10.2.7 2.0.21	12.10.3.21	10¼	"
		Tipton E.R. Isett Surveyor			
Stream Anchor	1	4.0.0	6.7.2.0	4	June
Kedge ...	1	2.1.21 2.1.21	3.0.0.0	2	"
2nd Kedge ...	1	1.0.0 1.1.21	—	1	—

Reference should be made to any correspondence connected with the case. Complete pair.

Standing and Running Rigging is wire & hemp sufficient in size and good in quality. She has One Long Boat and one Dingy

The Windlass is Patent and good Capstan — and Rudder Good Pumps Good

Engine Room Skylights.—How constructed? Of Teak on Iron Coamings 24 ins above Bridge deck. How secured in ordinary weather? With Screw bolts & nuts

What arrangements for deadlights in bad weather? Solid tops with bulls eyes

Coal Bunker Openings.—How constructed? with plates & angles How are lids secured? With hatch bars Height above deck? (Br.) 18 ins

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? 2 Scuppers, 2 freeing ports and 1 spring also 2 circular each side of capstan with bayonet fittings & above Br. deck forward, and 2 Scuppers. 2 freeing ports and 2 spring pipes aft, each side.

Cargo Hatchways.—How formed? Of plates and angles, Coamings 22 ins above deck.

State size **Main Hatch** 20.2 × 10.0 Forehatch 5.4 × 7.0 Quarterhatch 18.2 × 10.0

If of extraordinary size, state how framed and secured? A deep web plate in each of the two large hatches

What arrangement for shifting beams? and one fore and after in all.

Hatches, If strong and efficient? Yes solid 3 ins.

Order for Special Survey No. 184

Date Jan 26th 1886

Order for Ordinary Survey No.

Date

No. 40 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

Feb. 15, 19, Mar. 2, 12, 16, 25, April 6, 22, 29; May 3, 5, 10, 17, 21, 31; June 4, 14, 25, 26; July 2, 5, 7, 8, 14, 21, 23, 26, Aug. 5, 6, 7, 9.

State dates of letters respecting this case Dec. 22nd 1885; May 6th, & 25th, and June 2nd, 86, also Jul

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

This vessel has been built, and completed in accordance with the accompanying approved tracings, viz Midship and Longitudinal sections, Plan, and Sketch of Rudder pintle; in compliance with the Secretary's letters, dated as above; and the Rules in all other respects have been adhered to. She has a Forecastle 28 feet long, a Bridge 58.8 and a Raised Quarter deck 49.9 long - the two latter being combined. a water ballast tank in the after hold 33 feet long, with water capacity for 70 tons, and a Fore peak tank with capacity for 53 tons, both tested as required by the Rules.

The materials used in her construction, and the workmanship are very good. The iron quarter deck and the main deck between forecastle and bridge have been sheathed with 2½" Y.P. pine, and the work remaining to be done when the vessel last Surveyed is now completed. J. Thomson, Glasgow, 10th Aug 1886.

58.8 28 49.9

State if one, ~~two, or three decked vessel, or if spar, or awning~~ decked; and the lengths of ~~poop~~, bridge, forecastle, ~~or~~ raised quarter deck. (~~If~~ double bottom, state particulars on separate form.)

How are the surfaces preserved from oxidation? Inside Cement and paint Outside Paint

I am of opinion this Vessel should be Classed + 100 A 1

The amount of the Entry Fee .....£ 3 : : is received by me, Paid Vide Letter 14/8/86 James Turpin

Special .....£ 33 : 8 : 18

(to be sent as per margin). Certificate ... : : *Surveyor to Lloyd's Register of British and Foreign Shipping*

(Travelling Expenses, if any, £).

Committee's Minute TUESDAY 17 AUGUST 1886 18

Character assigned + 100 A 1 L.A. C.B. 10K Iron

1 D.K. Iron

7/8/86

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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