

3 Decks. Rule

IRON OR STEEL STEAMER

210

State if Report is also sent on the Machinery of the Vessel

Received at London Office 1901

Date of completion of report 4th June 01

Port of Middlesbro

No. 3189

Survey held at Middlesbro

Date, First Survey 12th Sept 1900

Last Survey 24th May 1901

On the 5/5

Lustleigh

Rig sr

TONNAGE under

Tonnage Deck...

Do. between Tonnage Dk.

and 4th Dk.

Total under Upper Dk. 3024.47

Do. of Poop

Do. of Bridge House

Do. of Forecastle 46.51

Do. of Houses on Dk. 81.61

Do. of excess of Hatchways 36.10

Do. above Crown of 61.36

Gross Tonnage 3250.05

Less Crew Space 80.40

Less above Crown of 61.36

Tonnage for Fees 3108.29

Less Engine Room 1040.02

Less Navigation Spaces 37.06

Tonnage 2092.57

ONE THREE DECKED VESSEL.

CLASS 100A1 with free

FEET.

Half Breadth (moulded) 23.37

Depth from upper part of Keel to top of Upper Deck Beams 27.54

Girth of Half Midship Frame (as per Rule) 47.03

deduct 7 feet 7

1st Number 90.94

Length on deck from after part of stem to fore part of stern post 328.75

2nd Number 29896

Proportions—Breadth to Length 7

Depth to Length—Upper Deck to top of Keel 11.93

Main Deck ditto 16.7

Destined Voyage Cape via Cardiff

Master P. N. Baker

Year of appointment (1) As Master in service of owner of present vessel 1901 (2) As Master of this vessel 1901

Built at Middlesbro

When built 1901 Launched 9th March 1901

By whom built R. Craggs & Sons

Owners Bellamy & Co

Managers (Where necessary to be entered in Reg. Book.)

Residence Plymouth

Port belonging to Plymouth

Deck 328 9 Breadth 46 9 Depth 24 15 No. of Decks with flat laid one
No. of Tiers of Beams 2 + 2 frames
Round of Upper Dk. Beam, Actual 12 ins.
Ship per Register, Length 330.7 breadth 47.1 depth 24 Moulded depth, ft. 26 ins. 6 1/2 To Upper Dk.

FRAMING.

	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule	Inches per Rule	20ths per Rule
Angles, or L, E or L Bars for 1/2 length amidships	5 1/2	3 1/2	8	6 1/2	3 1/2	8
at each end	"	"	7	"	"	7
Way of Double Bottoms at Solid Floors	3 1/2	3 1/2	8 1/2	3 1/2	8 1/2	8 1/2
in E & B space & beams	4	3 1/2	8	4	3 1/2	8
of Frames from moulding edge to edge, all fore and aft	24			24		
ED FRAME, Angles	6	3 1/2	8 1/2	6	3 1/2	8 1/2
FRAMING, depth of girder	8 1/2			8 1/2		
depth and thickness of Floor Plate at mid-line for 1/2 length amidships						
Way of Engines and Boilers						
Thickness at the ends of vessel						
at 1/2 the half breadth, as per Rule						
Height extended at the Bilges						
& BRACKETS in Cell Dble Bottoms	42	9	42	9		
Distance apart	24			24		
GIRDER, in Double bottom, depth and thickness	42	11	42	11		
Angles, Top	4	4	9	4	4	9
Bottom	6 1/2	4	9	6 1/2	4	9
ORDERS, number on each side & thickness	one	8	3 under caps			
Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	18
PLATE, depth (exclusive of flange) and thickness	36	9	32	9		
Angles to Outside Plating	4	4	9	4	4	9
BOTTOM PLATING, breadth and thickness of Middle Line Strake	36	10	36	10		
in Engine and Boiler space	20 x 9 1/2		20 x 9 1/2			
Remainder in Holds	8 1/2	3	11	8 1/2	3	11
Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
Angles on upper edge	24			24		
Average space	11 1/2	10	11 1/2	10		
Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
Angles on upper edge	3 1/2	3 1/2	8	3 1/2	3 1/2	8
Average space	48			48		
Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
Angles on upper edge						
Average space						
Hold, or Orlop, Plate or Tee Bulb						
Angles on upper edge						
Average space						
Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	6 1/2	3	8	6 1/2	3	8
Angles on upper edge	24			24		
Average space						
Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	6 1/2	3	8	6 1/2	3	8
Angles on upper edge	24			24		
Average space						
Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	3 1/2	11	9	3 1/2	11
Angles on upper edge	48			48		
Average space						
Stairs, In 'tween Deck, size and spacing	2 1/4	4 spaced	2 1/4	4 spaced		
Hold	4	as	4	as		
Quarter 'tween Dks., in Hold	2 1/4	Rule	2 1/4	Rule		
FRAMES, In Fore Body, No. and spacing	4		4			
breadth & thickness						
No. of Side Stringers						
WEB-FRAMES, In E. & B. Space, No. & spacing	4	4 x 5 spaces				
breadth & thickness	18	8	18	8		
WEB-FRAMES, In After Body, No. and spacing						
breadth & thickness						
No. of Side Stringers	2	18	8	2	18	8
Size of Angles or Tee Bars to Web-Frames	4	3 1/2	8	4	3 1/2	8
BRACKET PLATES to Stringers between Web Frames, depth and thickness	24	8	24	8		

FORGINGS or CASTINGS.

	Inches in Ship	Inches per Rule Or as Approved
KEEL, Bar or Side Plates, depth and thickness	Flat plate Keel	
STEM, moulding and thickness	11 x 2 3/4	11 x 2 3/4
STERN-POST for Rudder do. do.	11 x 6 1/2	11 x 6 1/2
for Propeller	20	20
MAIN PIECE of Rudder, diameter at head	8 1/2	8 1/2
do. at heel	6 1/2 x 4 1/4	6 1/2 x 4 1/4
RUDDER, how constructed	Single plate 23/20 circular stock	
Can the Rudder be unshipped afloat?	Yes	Coupled

KEELSONS & STRINGERS.

	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule Or as Approved	Inches per Rule Or as Approved	20ths per Rule
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate						
Rider Plate						
Bulb Plate to Intercoastal Keelson						
Horizontal Plates on Floors						
Angles						
SIDE KEELSON, Angles						
Bulb or Plate above floors, for length						
Intercoastal Plate, for length						
Attached to outside Plating with Angle						
BILGE KEELSON, Angles						
Bulb or Plate above floors, for length						
Intercoastal Plate for length						
Attached to outside Plating with Angle						
BILGE STRINGER Angles						
Bulb Plate for length						
Intercoastal Plate for length						
Attached to outside Plating with Angle						
SIDE STRINGER Angles (3)	6 1/2	4 1/2	12	6 1/2	4 1/2	12
Bulb or Intercoastal Plate, for holds	22	9	22	9		
Attached to outside plating with Angle	3 1/2	3 1/2	9	3 1/2	3 1/2	9

Upper Deck Stringer Plates, br'dth & thickness	47	10	47	10
Angle on ditto	4 1/2 x 4 1/2	10	4 1/2 x 4 1/2	10
Tie Plates fore and aft, outside Hatchways	11/6 x 7	7	11/6 x 7	7
Deck * Iron or Steel, for full lng.	11/6 x 7	7	11/6 x 7	7
Wood Deck. Material & thickness	11/6 x 7	7	11/6 x 7	7
Middle Deck Stringer Plate, br'dth & thickness	59	12	59	12
Angles on ditto, No. 2	4 x 4	9	4 x 4	9
Tie Plates outside Hatchways	4 x 4	9	4 x 4	9
Diagonal Tie Plates on Bms., No. of prs.	1		1	
Deck * Iron or Steel, for lng.	11/6 x 7	7	11/6 x 7	7
Wood Deck. Material & thickness	11/6 x 7	7	11/6 x 7	7
Lower Deck Stringer Plate, br'dth & thickness	26	6	26	6
Angles on ditto, No.	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Tie Plates, outside Hatchways	5/16	5/16	5/16	5/16
Deck * Material and thickness	5/16	5/16	5/16	5/16
Hold, or Orlop Stringer Plate, br'dth & thckn's	26	6	26	6
Angles on ditto, No.	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Tie Plates outside Hatchways	5/16	5/16	5/16	5/16
Deck. Material and thickness	5/16	5/16	5/16	5/16
Poop Deck Stringer Plate, breadth & thickness	26	6	26	6
Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Tie Plates	5/16	5/16	5/16	5/16
Deck. Material and thickness	5/16	5/16	5/16	5/16
Bridge Deck Stringer Plate, br'dth & thickness	26	6	26	6
Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Tie Plates	5/16	5/16	5/16	5/16
Deck. Material and thickness	5/16	5/16	5/16	5/16
Forecastle Deck Stringer Plate, br'dth & th'kns	26	6	26	6
Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Tie Plates	5/16	5/16	5/16	5/16
Deck. Material and thickness	5/16	5/16	5/16	5/16

	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
BULKHEADS.	In Vessel.	Per Rule.	Horizontal Size.	Vertical Size.	Spacing.
W. T. BULKHEADS	6	6	7-6	48	30
PARTITION	1	1	7-6	48	30
LONGITUDINAL	1	1	7-6	48	30
Are the outside Plates doubled two spaces of Frames in length?					Yes
Are the Sluice Valves and Watertight Doors in efficient working order?					Yes

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.			
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.		
FLAT PLATE KEEL.....	36	19	14	14	36	19	Double	6	1	4	7/8 all	1	3 1/2	19	12 inner	10 1/2	all		
(If Bar Keel, state Riveting)																			
GARBOARD OR A Strake ...	54	15	12	12-13	36	15	"	"	5/8	3 3/4	"	"	7/8	3 3/4	-	-	9	"	
State actual thickness in way of Double Bottom.																			
B "		11	9	9-14		11	"	"	"	"	"	"	"	"	-	-	"	"	
C "		11	9	9-14		11	"	"	"	"	"	"	"	"	-	-	"	"	
D "		11	9	9-14		11	"	"	"	"	"	"	"	"	-	-	"	"	
E "		12	9	9-14		12	"	"	"	"	"	"	"	"	-	-	"	"	
F "		12	9	9-14		12	"	"	"	"	"	"	"	"	-	-	"	"	
G "		12	9	9-12		12	"	"	"	"	"	"	"	"	-	-	"	"	
H "		12	9	9-12		12	"	"	"	"	"	"	"	"	-	-	"	"	
J "		12	9	9-12		12	"	"	"	"	"	"	"	"	-	-	"	"	
K "		12	9	9-12		12	"	"	"	"	"	"	"	"	-	-	"	"	
L "		13	9	9		13	"	"	"	"	"	"	"	"	-	-	"	"	
M "		13	9	9		13	"	"	"	"	"	"	"	"	-	-	"	"	
Sheer N "	44	15	11	10	44	15	"	"	"	"	4 fold	1	3 1/2	-	-	14	"		
O "																			
P "																			
Q "																			
R "																			
DOUBLING of Flat Plate Keel	Keel increased 2/20, Garbd strakes 2/20 + Centre Girders 2/20 for 1/2 L in line of keel doubling																		
Length and thickness of Bilges	Doubled at Bridge ends for about 20ft x 1 1/2 Bridge side plating increased																		
of Sheerstrakes																			
of Strake below																			
POOP SIDES				7		7													
BRIDGE SIDES		9 1/2				9 1/2													
FORECASTLE SIDES				7		7													

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.?	Siemens Bolckow, Bonsett, Palmers Iron plates John Hill & Co
Has the Steel been tested as required by the Rules?	yes
Upper Deck Butts, treble riveted for	stands 4 fold for 1/2 length amidship.
Stringer Plate Straps, single, double or overlapped for	full length amidship.
Middle Deck Butts, treble riveted for	full length amidship.
Stringer Plate Straps, single, double or overlapped for	full length amidship.
Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted?	Y & S
Inner Bottom Plating, riveting of Edges	D x S Butts D x S
Centre Girders Butts, treble lap riveted	Keelson Butts, double riveted.
Frames, riveted through Plates with	7/8 in. Rivets, about 6 1/4 apart.
Rivets, state whether Iron or Steel	Iron

FRAMES extend in one length from tank margin to upper, poop, bridge & fore-castle decks.

REVERSED FRAMES on floors and frames extend from all to upper deck (as full compensation for omission of the wood middle deck) to upper & fore-castle dks alternately - 5 ft in E & B space.

MASTS, SPARS, &c.											
	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS.....											
Fore	Steel	69-3	18 1/2 x 7/20	18 x 7/20	-	12 1/2 x 3/20	2	✓	✓	single	treble
Main	do	70-0	do	do	-	do	2	✓	✓	do	do
Mizen											
Bowsprit ✓											
Topmasts, Yards and Remainder of Spars	p.p. telescope topmasts										
Rigging, Material and Size, Shrouds	iron wire 3 1/2										
Sails.	one	Suit of fore & aft	Stays 3 3/4								
Sails, and the following spare sails	✓										

EQUIPMENT No. 34129 LETTER V												ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 22.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.			
40550	1st Bower	47	2	14	Stockless	40	17	3	7	47	2	-	Reliance	Byers	Sund 7-3-01	
40533	2nd "	47	2	-	do	40	16	1	-	47	2	-	Patent	do	do 6-3-01	
40174	3rd "	40	3	-	do	36	6	1	-	40	1	-	Stockless	do	do 10-1-01	
	4th "														H. T. Welford	
	Collective weight	135	3	14						135	1	-				
14669	Stream	11	2	-	2 3	13	7	2	-	11	2	-	Rodgers	abbot	L. Walker 6-3-01	
17670	Kedge	5	3	-	1 1 21	8	-	2 14	5	3	-	do	do	do	W. J. Relf	
Certs of cast steel heads produced signed J. G. Craig																

CHAIN CABLES.										HAWSERS AND WARPS.					
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Table 22.	
				Supplied.	Per Table 22.										
9376	135	2	72	269-2-0	269-1-14	270-2	Stud	abbot	L. Walker 22-1-01	TOWLINE, Steel	120	4	33	120-4	
9384	135	2	100.8	270-0-7	269-1-14			do	do 21-3-01	HAWSER "	90	4	33	90-7	
				279-2-7	538-3-0			W. J. Relf		WARP "	90	2 1/2	122	90-7	
Iron Stream Chain or Steel Wire ...	90	4 1/2	39			90-4 1/2	Steel wire	Graves & Speeding	Makers Cert	" Manila	360	6	-	90-7	
										" "	180	5	-	90-7	

Boats 2 life, & 2 others.

Pumps, Number 8 Diameter of Barrel 5 1/2 State whether they are in efficient working order yes

Windlass is Steam - Emerson & Walker Capstan 5 Steam winches

Engine Room Skylights.—How constructed? Steel, teak shutters

What arrangements for deadlights in bad weather? Bulls eyes

Coal Bunker Openings.—How constructed? Bulb angles How are lids secured? battened Height above deck? 8"

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Scuppers 10 pr. 7 ports, 7 pr 30 x 18"

Ceiling in Holds, thickness and material 2 1/2 pine Ceiling 'tween Decks, thickness and material 2" pine

Cargo Hatchways.—How formed? plates & angles 40" Coamings Hatches, If strong and efficient? 2 1/2 solid

State size No. 1 Hatch (Forward) 20 x 16 No. 2 Hatch 28 x 16 No. 3 Hatch 24 x 16 No. 4 Hatch 24 x 16

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 7 pr 1 web, 10 pr 2, 3 & 4 - 2 webs - all 3 fore & afters

No. of Breasthooks 6 No. of Crutches 5 floor & flat

Bulwarks, height above deck and description 3-6" steel & bulb plate stays Main Rail, material and size Double cope 3 x 1 1/2

The above is a correct description. R. CRAGGS & SONS, Surveyor's Signature W. H. Cooper

Builder's Signature (here only) J. H. Sturdy Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

M. 17.7.00-21.9.00-17.12.00-15.5.01-

E. 8.10.00

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 plating?

a few

Are the butts of Plating, Stringers, &c., properly shifted and strapped?

yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)?

yes

State results of tests

satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)?

yes

State results of tests

yes

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

Good

This vessel has been built in accordance with the approved plans, the Secretary's Letters of the above dates, & in general conformity to the Rules for the Class contemplated. The fore peak bulkhead and the shaft tunnel have been tested as required & found in order, and the steam & hand steering gears seem working satisfactorily. The wood middle deck is omitted, but all the reverse frames are extended to the upper deck as part compensation. In way of the 28th hatchway the alternate reverse frames are doubled to the upper deck, & the hatch end beams strengthened.

2 Forging Reports. 5 Plans.

$\frac{1}{2}$ "Epirus" Report No 3084 is practically a sister vessel.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 96 ft., F'castle 35 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

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) 1 Stk (pt Sm + pt Stl) 2 tr B + deep framing. 3 Stk rule

Official No. 111359 ; Signal Letters

How are the surfaces preserved from oxidation? Inside

cement & paint

Outside paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors cellular

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	102	2444	Fore peak tank,	✓	✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	80
Double bottom, if under Engines only,	26	76	Midship deep tank,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Other tanks, if fitted,	✓	✓
Double bottom, forward,	138	356	(If necessary, furnish further information by sketch.)	✓	✓

* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules. yes

Order for Special Survey No. 504

Date 27 July 1901

No. 167 in builder's yard.

DATES of Surveys held while building

1900' Sept 12.17.22.26. Oct 2.8.12.15.18.23.24.31. Nov 5.7.14.19.21.23.25.30. Dec 7.11.21.24. 1901' Jan 10.16.24.26.31. Feb 1.8.12.13.19.22.25.26.27. Mar 1.4.6.7.8.13.21.22.27.28. Apr 4.29. May 1.3.6.7.8.9.13.14.16.20.21.22.23.24

Total No. of Visits 64

The amount of Entry Fee.....£ 5 : 0 : 0

Special Survey Fee£102 : 14 : 0

Travelling Expenses, if any £ : :

Fees applied for,

5.6 1901

Received by me,

5.6 1901

Certificate to be sent to

State whether the Vessel has been built under Special Survey yes

I am of opinion this Vessel should be Classed 100A1 "Steel" "3 Stk Rule"

With, or without Freeboard, as condition of Class. with Freeboard

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

Committee's Minute FRI. JUN 7 1901

Character assigned

100A1 (Steel)

with freeboard 5' 5" 1"

ascb

W. H. Cooper



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