

3 Decks Rule

IRON OR STEEL STEAMER.

No. 2382

MON 25 JUL 1898

Date of completion of report 23rd July 1898 State if Report is also sent on the Machinery of the Vessel Yes
Survey held at Stockton-on-Tees Port of Middlesbrough Received at London Office
On the Iron Steamer "Euston" Date First Survey 9th February 98 Last Survey 18th July 1898
(Gard & 346) Rig Schooner

TONNAGE under Tonnage Deck... 2545.73

Do. between Tonnage Dk. and 3rd and 4th Dk. Total under Upper Dk.

Do. of Poop 49.34

Do. of Bridge House 40.12

Do. of Houses on Dk. 39.34

of excess of Hatchways above Crown of Engine Room 33.26

ss Tonnage 2728.29

Crew Space above Crown of Engine Room 71.5

AGE FOR FEES 2656.58

Engine Room 872.99

Navigation Spaces 909.28

Master Tonnage 1747.30

cut on Beam

one THREE DECKED VESSEL.

CLASS 100 A/Ctd

Rich Freeboard.

Half Breadth (moulded) 21.90

Depth from upper part of Keel to top of Upper Deck Beams 25.16

Girth of Half Midship Frame (as per Rule) 43.20

deduct 7 feet 7.00

1st Number 83.26

Length 318.16

2nd Number 26490

Proportions—Breadth to Length 7.2

Depth to Length—Upper Deck to top of Keel 12.6

Main Deck ditto

Destined Voyage Underland to load

Master V. Thomas

Year of appointment (1) As Master in service of owner of present vessel—1898 (2) As Master of this vessel—1898

Built at Stockton-on-Tees

When built 1898 Launched 6-6-98

By whom built Ropner Son

Owners Euston Steamship Co

Managers Evan Thomas Radcliffe & Co

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

Residence Cardiff

Port belonging to Cardiff

Dimensions of Ship per Register, Length 320 breadth 44 depth 21.95 Moulded depth, ft. 24 ins. 3 To Upper Dk. Beam, Upper Dk. 11 ins.

FRAMING.				FORGINGS or CASTINGS.				Inches in Ship.		Inches per Rule. Or as Approved.		
NAME, Angles, or Bars for length amidships	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	NAME, Bar or Side Plates, depth and thickness	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.					
o. for 1/2 at each end	5	3 1/2	8	STEM, moulding and thickness	11 x 2 1/2		11 x 2 1/2					
o. in way of Double Bottoms at Solid Floors	5	3 1/2	8	STERN-POST for Rudder do. do.	11 x 5 1/2		11 x 5 1/2					
" " at intermdt. Bkts.	3 1/2	3 1/2	8	" " for Propeller	11 x 5 1/2		11 x 5 1/2					
ance of Frames from moulding edge to moulding edge, all fore and aft	24		24	MAIN PIECE of Rudder, diameter at head	8		8					
VERSED FRAME, Angles	3 1/2	3 1/2	8	" " do. at heel	4		4					
EP FRAMING, depth of girder	3 1/2	3 1/2	8	RUDDER, how constructed	Iron Trapping Plates in usual way.							
DOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships				Can the Rudder be unshipped afloat?	Yes.							
" in way of Engines and Boilers				KEELSONS & STRINGERS.								
thickness at the ends of vessel				CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches in Ship.	20ths in Ship.	
depth at 1/2 the half breadth, as per Rule				" Rider Plate								
height extended at the Bilges				" Bulb Plate to Intercoastal Keelson								
DOORS & BRACKETS in Cell Dble Bottoms	40	7/16	40	" Horizontal Plates on Floors								
" Distance apart	24		24	" Angles								
NTRE GIRDER, in Double bottom, depth and thickness	40	12	40	SIDE KEELSON, Angles								
" Angles, Top	4	4	9	" Bulb or Plate above floors, for lng.								
" Bottom	6 1/2	4	10	" Intercoastal Plate, for length								
IE GIRDERS, number and thickness	me	7/16	me	" Attached to outside Plating with Angle								
" Angles	3 1/2	3 1/2	7/16	BILGE KEELSON, Angles								
RGIN PLATE, depth (exclusive of flange) and thickness	29	8	29	" Bulb or Plate above floors, for lng.								
" Angles	3 1/2	3 1/2	8	" Intercoastal Plate for length								
IER BOTTOM PLATING, breadth and thickness of Middle Line Strake	52	7/16	52	" Attached to outside Plating with Angle								
" " in Engine and Boiler space		7/16	8	BILGE STRINGER Angles								
" " Remainder in Holds		8	8	" Bulb Plate for length								
AMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	10	" Intercoastal Plate for length								
" Angles on upper edge	24		24	" Attached to outside Plating with Angle								
" Average space				SIDE STRINGER Angles								
AMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10 1/2	10	10 1/2	" Bulb or Intercoastal Plate, for lng.								
" Angles on upper edge	3 1/2	3 1/2	8	" Attached to outside plating with Angle								
" Average space	48		48	Upper Deck Stringer Plates, br'dth & thickness	4 1/2	12	4 1/2	12				
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto	4 1/2	10	4 1/2	10				
" Angles on upper edge				" Tie Plates fore and aft, outside Hatchways								
" Average space				" Deck.* Iron or Steel, for whole lng.								
AMS, Hold, or Orlop, Plate or Tee Bulb				" Wood Deck. Material & thickness								
" Angles on upper edge				Middle Deck Stringer Plate, br'dth & thickness	5 1/2	12	5 1/2	12				
" Average space				" Angles on ditto, No. of prs.	4 x 4	10-9-8	4 x 4	10-9-8				
AMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	8	" Tie Plates outside Hatchways								
" Angles on upper edge	48		48	" Diagonal Tie Plates on Bms., No. of prs.								
" Average space				" Deck.* Iron or Steel, for lng.								
AMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	8	" Wood Deck. Material & thickness								
" Angles on upper edge	24		24	Lower Deck Stringer Plate, br'dth & thickness								
" Average space	8 1/2	8	8 1/2	" Angles on ditto, No.								
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	3	3	6	" Tie Plates, outside Hatchways								
" Angles on upper edge	48		48	" Deck.* Material and thickness								
" Average space	2 1/2	as Rule	2 1/2	Hold, or Orlop Stringer Plate, br'dth & thckn's								
PILLARS, In 'tween Deck, size and spacing	4	as Rule	4	" Angles on ditto, No.								
" " Hold	2 1/2	as Rule	2 1/2	" Tie Plates outside Hatchways								
" " Quarter 'tween Dks.,	4 1/2	as Rule	4 1/2	" Deck. Material and thickness								
" " in Hold				Poop Deck Stringer Plate, breadth & thickness	2 1/2	4	2 1/2	4				
3-FRAMES, In Fore Body, No. and spacing	15	as Rule	15	" Angle on ditto	3 x 3	7	3 x 3	7				
" " br'dth, & thickness	15	as Rule	15	" Tie Plates								
No. of Side Stringers	15	as Rule	15	" Deck. Material and thickness	Yellow Pine	3		3				
AMES, In E. & B. Space, No. and spacing	15	as Rule	15	Bridge Deck Stringer Plate, br'dth & thickness	5 1/2	12	5 1/2	12				
" " br'dth, & thickness	15	as Rule	15	" Angle on ditto	3 1/2	3 1/2	9	3 1/2	3 1/2	9		
WEB-FRAMES, In After Body, No. and spacing	15	as Rule	15	" Tie Plates								
" " br'dth, & thickness	15	as Rule	15	" Deck. Material and thickness	Iron	5/16		5/16				
No. of Side Stringers	15	as Rule	15	Forecastle Deck Stringer Plate, b'dth & th'kns	2 1/2	4	2 1/2	4				
Size of Angles or Tee Bars to Web-Frames	3 1/2	3 1/2	8	" Angle on ditto	3 x 3	7	3 x 3	7				
BRACKET PLATES to Stringers between Web Frames, depth and thickness	3 1/2	3 1/2	8	" Tie Plates								
				" Deck. Material and thickness	Pitch Pine	3 1/2		3 1/2				
				* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.								
				BULKHEADS.	Number.	Thickness.	STIFFENERS.		Single or Double Frames.	Height up.		
				In Vessel.	Per Rule.		Horizontal.	Vertical.				
							Inches.	Built-up.				
				W. T. BULKHEADS	5	5	1/2	3/4	2	3	Double Rule.	
				PARTITION								
				LONGITUDINAL								
				Are the outside Plates doubled two spaces of Frames in length								Diamond shape.

BULKHEADS.				STIFFENERS.			
In Vessel.	Per Rule.	Thickness.	Horizontal.	Vertical.	Spacing.	Single or Double Frames.	Height up.
W. T. BULKHEADS	5	5	5	5	5	5	5
PARTITION	5	5	5	5	5	5	5
LONGITUDINAL	5	5	5	5	5	5	5

Are the outside Plates doubled two spaces of Frames in length

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAPS.		IF LAPPED.					
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.						Breadth.	Thickness.		Breadth.	Thickness.			
FLAT PLATE KEEL.....	36	18	12	12	36	18	Double	6	1	4	2 1/2	1	3 1/2	14	Whole				
(If Bar Keel, state Riveting)	36	18	12	12	36	18	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
GARBOARD OR A Strake	46	11	9	12	46	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
B "	46	11	9	12	46	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
C "	54	10	9	11	54	10	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
D "	46	11	9	13	46	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
E "	54	11	9	11	54	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
F "	46	12	9	12	46	12	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
G "	53	11	9	11	53	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
H "	46	12	9	9	46	12	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
J "	54	11	9	9	54	11	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
K "	46	12	9	9	46	12	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
L "	54	13	9	9	54	13	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
M "	42	15	10	10	42	15	5/8	5 1/2	1 1/2	3 1/2	1	3 1/2	14	Whole					
N) Barge.	8				8		Single	2 1/2	3/4	3	Double	3/4	2 1/2	9 1/4	7				
O) Side.	9				9		5/8	2 1/2	3/4	3	Double	3/4	2 1/2	9 1/4	7				
P "																			
Q "																			
R "																			
DOUBLING of Flat Plate Keel	Flat plate keel increased 2", garboard 2" to centre girder 2" & bottom angle iron same to, for 1/2 length in																		
Length of Bilges	1/2 of doubling																		
Thickness of Sheerstrakes	Sheerstrake doubled at ends of Bridge																		
Thickness of Strake below																			
POOP SIDES	4																		
BRIDGE SIDES	4																		
FORECASTLE SIDES	4																		
<p>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.?</p> <p>Steel plates: Stockton Mill Co. Moor + Boleton Vaughan & Co. Ltd. angles & tubes. Dorman Long & Co. Limited. Iron plates & angles. Stockton & Middlesbrough Co.</p>																			
<p>FRAMES extend in one length from Middle line to tank side, hence to gunwale.</p> <p>REVERSED FRAMES on floors and frames extend from Middle line to upper and middle decks alternately, to upper deck on every frame in way of Poop Bridge, and alternate ones to Forecastle Deck.</p>																			
MASTS, SPARS, &c.																			
<p>LOWER MASTS: Fore, Main, Mizzen. Material: Steel. Total Length: 55'-8", 56'-5". At Partners: 20' x 2 1/2", 20' x 2 1/2". Heel: 18' x 7 1/2", 18' x 7 1/2". Hounds: 16' x 6", 16' x 6". Head: 14' x 6", 14' x 6". No. of Plates in round: 2, 2. ANGLES: Number, Size: 1, 1. RIVETING: Seams, Butts: Single, Treble double.</p> <p>Bowsprit: Pitch Pine.</p> <p>Topmasts, Yards and Remainder of Spars: Pitch Pine.</p> <p>Rigging, Material and Size, Shrouds: 6.000 Manila. Throats: 3 1/2". Stays: 4" Back stay 2 1/2".</p> <p>Sails: One complete. Suit of: Sails, and the following spare sails.</p>																			
EQUIPMENT No. 30206. LETTER U. ANCHORS.																			
<p>Number of Certificate: 33252, 33281, 33225, 33263, 33264. Anchors: 1st Bower, 2nd, 3rd, Stream, Kedg, 2nd Kedg. WEIGHT, EX STOCK, WEIGHT OF STOCK, TEST, PER CERTIFICATE, WEIGHT REQ. BY RULE, Description of Anchor, Makers, Where and when tested and Superintendent.</p>																			
CHAIN CABLES. HAWSERS AND WARPS.																			
<p>Number of Certificate: 13426. Fathoms: 270. Size: 1 1/2". Test per Certificate: 94 1/2 lbs. WEIGHT OF CHAIN CABLE: Supplied, Per Rule. Fathoms and Size per Rule. Description: 270-1 1/2" Steel. Makers of Cables: 4. Hawsers and Warps: 100-4, 90-3 1/2, 90-2 1/2.</p>																			
<p>Boats: Two Life Boats (23 feet) + Collie Boat (18 feet).</p> <p>Pumps: Number: 1. Hand Pumps (Listed). Diameter of Barrel and Tail Pipe: 6" Tail pipe 3".</p> <p>Windlass is: Emerson Walker & Co. Capstan: Four Steam Winches.</p> <p>Engine Room Skylights: How constructed? Steel plates and angles.</p> <p>What arrangements for deadlights in bad weather? Teak flaps with bulls eyes.</p> <p>Coal Bunker Openings: How constructed? Steel plates & angles. How are lids secured? Hatch bars. Height above deck? 15" + 24".</p> <p>Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Two Freeing Ports before and four after Bridge (30" x 18").</p> <p>Ceiling in Holds, thickness and material: 2 1/2" Pine. Ceiling tween Decks, thickness and material: 2" Pine.</p> <p>Cargo Hatchways: How formed? Steel plates and angles.</p> <p>State size No. 1 Hatch (Forward): 22'-0" x 16'-0". No. 2 Hatch: 24'-0" x 16'-0". No. 3 Hatch: 24'-0" x 16'-0". No. 4 Hatch: 24'-0" x 16'-0".</p> <p>Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch: Two Web Plates in No. 1, 2, 3 & 4. and three iron Afters in each.</p> <p>No. of Breasthooks: Nine. No. of Crutches: Three.</p> <p>Bulwarks, height above deck and description: 4 1/2" Iron plates and stanchions. Main Rail, material and size: Bull angle 6" x 3 1/2".</p> <p>The above is a correct description.</p> <p>Builder's Signature (here only): J. P. ROPNER & SON. Surveyor's Signature: J. P. ROPNER & SON. Surveyor to Lloyd's Register of British and Foreign Shipping.</p>																			

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

September 6th (M) 15th (M) 25th (M) 30th (M) October 12th (M) 1894. & January 10th 1898 (E).

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 facing surfaces? *Yes*. Do any rivets break into or through the seams or butts of plating? *A few at the butts only*.

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

General Remarks (State quality of workmanship, &c.) *This steel screw steamer has been built in accordance with the approved plans of Midship Section and Profile as amended, the Secretanys letters of the above-mentioned dates bearing upon the case and in other respects as required by the Rules and Circulars for the Class contemplated.*

The workmanship is good throughout.

The Bower anchors are Reliance Patent stockless, and the cast-steel heads of same have been subjected to drop and mechanical tests at Middlesbrough & Elswick by Mr. J.C. Craig.

She has a Bilge Keel formed of bull-9" x 3/4" and angle 3 1/2" x 3 1/2" x 1/2" fitted for a length of about one hundred and six feet.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 28'9 1/2" ft., R.Q.D. or Break ☒ ft., Bridge Dk. 68' ft., F'castle 34'08" 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 dx (Iron) 2 tiers of Beams & 1 tier of Frames.*

Official No. *105198*; Signal Letters ☒.

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

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system *Yes*.

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	112	231	Fore peak tank,		
Double bottom, forward,	126	293	After peak tank,	12	4 1/4
Double bottom, under Engines and Boilers,	22	59	Midship deep tank,		
Double bottom, if under Engines only,			Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. *346* Date *16th Oct 1898*

Order for Ordinary Survey No. ☒ Date *16th Oct 1898*

No. *346* in builder's yard.

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.

Fees applied for, £5:0:0. Received by me, *22.4.1898*.

The amount of Entry Fee, £5:0:0. Special Survey Fee, £91:8:6. Travelling Expenses, if any £-:-.

I am of opinion this Vessel should be Classed ☒ 100A Steel. A.R.P. With, or without Freeboard, as condition of Class *With Freeboard*.

Committee's Minute *TUES. 26 JUL 1898*

Character assigned *100A Steel with freebd. 2.4.8 1/2*

15th (Iron) 2 A.R.P. 2 Wab frames 3 dk Rule

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