54368

Sailing Vessel. Iron or STEEL SAILING SHIP.

(Received at London Office 25/5/93)

Date of completion of Report May 24th 1893 Port of London

No. 54368 Survey held at London. Date of First Survey Oct 5th 1892. Last Survey May 17th 1893

On the Steel Tar Lighter "Coaltar." Rig Schooner

Master Jos. Fredk. Halsewell.

Year of Appointment (1) As master in service of owner of present vessel — 18 93 (2) As master of this vessel 18 93

Built at Blackwall London. E.

When built 1893 Launched April 5th

By whom built Thames Ironworks & Shipbuilding Co. Ltd.

Owners Burt Boulton & Heywood

Managers

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

Residence 64 Cannon Street E.C.

Port belonging to London.

If Surveyed while Building, Afloat, or in Dry Dock Building

TONNAGE under Tonnage Deck	217.59
Do. of Poop	
Do. of raised Qr. Dk. or Break	
Do. of Bridge House	
Do. of Houses on Deck	
Do. of excess of Hatchways	1.89
Do of Forecastle	
Gross Tonnage	219.48
Less Crew Space	24.88
TONNAGE FOR FEES..	
Less Navigation spaces	
Register Tonnage as cut on Beam....	194.60

ONE ~~OR TWO~~ DECKED VESSEL.

CLASS 100 A.1.

	FEET.
Half Breadth (moulded)	12.00
Depth from upper part of Keel to top of Upper Deck Beams	13.75
Girth of Half Midship Frame (as per Rule)	21.80
1st Number	47.55
Length	107.0
2nd Number	5087.8
Proportions—Breadths to Length	4.04
Depths to Length—Upper Deck to top of Keel	8.07

PLANS CASE

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.	
LENGTH on deck as per rule	107	0	BREADTH— Moulded	24	0	DEPTH— Top of Floors to Upper Deck Beams	12	10	No. of Decks with Flat laid one; No. of Tiers of Beams one

Dimensions of Ship per Register, Length 109.0 breadth 24.0 depth 12.8. Moulded depth, ft. 13 in. 5. Round up of Beam 6 ins.

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	6 × 1½	6 × 1½
STEM, moulding and thickness	6 × 1¼	6 × 1¼
STERN-POST, do. do.	6 × 1¼	6 × 1¼
MAIN-PIECE of RUDDER, diameter at head	3½	3¼
,, ,, ,, at heel	2	
RUDDER, how constructed	Forged Frame & Plating	
Can the Rudder be unshipped afloat?	Yes.	

FRAMING.

	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as	Inches per Rule as Approved.	16ths or 20ths per Rule Approved.
FRAME, Angles, ~~or ⊤ Bars~~, for ⅗ length amids.	3	3	6/20	3	3	6/20
Do. for ⅕ at each end	3	3	3/20	-	-	3/20
Do. in way of Double Bottoms	-	-	-			
Distance of Frames from moulding edge to moulding edge, all fore and aft		21"			21	
REVERSED FRAME, Angles	2½	2½	3/20	2½	2½	3/20
FLOORS, depth and thickness of Floor Plate at mid line for ⅗ length amidships		13½	6/20		13½	6/20
,, thickness at the ends of vessel			3/20			3/20
,, depth at ¾ the half breadth, as per Rule		7"			7"	
,, height extended at the Bilges						
FLOORS & BRACKETS, in **Cell Dble Bottoms**	-	-	-	-	-	-
,, ,, distance apart						
CENTRE GIRDER, in Dbl. Btm., dpth & thcknss						
,, ,, Angles, Top Bottom						
SIDE GIRDERS, number and thickness						
,, ,, Angles						
MARGIN PLATE, depth (exclusive of flange and thickness)						
,, ,, Angles						
INNER BOTTOM PLATING, br'dth & thickn's of **Middle Line Strake**						
,, ,, ,, Remainder						
BEAMS, Main Deck, Single Angle, ~~Bulb Angle~~, ~~Plate or Tee Bulb~~	5	3	6/20	5	3	6/20
,, Angles on Upper Edge						
,, Average space		21			21	
BEAMS, Lower Deck, Plate or Tee Bulb						
,, Angles on Upper Edge						
,, Average space						
BEAMS, Hold, Plate or Tee Bulb						
,, Angles on Upper Edge						
,, Average space						
BEAMS, Poop or Bridge Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
,, Angles on Upper Edge						
,, Average space						
BEAMS, Forecastle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
,, Angles on Upper Edge						
,, Average space						
PILLARS, In 'tween Decks, at Centre line. Size	-	-	-			
,, ,, ,, ,, Spacing						
,, ,, ,, Quarter..... Size						
,, ,, ,, ,, Spacing						
,, **In Holds,** at Centre line..... Size	2½ & 2⅜				2⅜	
,, ,, ,, ,, Spacing						
,, ,, Quarter..... Size						
,, ,, ,, Spacing						
WEB FRAMES, Breadth and thickness						
,, ,, Number and Spacing						
Number of Side Stringers, breadth and thickness.						
Size of Angles or Tee Bars to Web-Frames						

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as	Inches per Rule as Approved.	16ths or 20ths per Rule Approved.
CENTRE LINE KEELSON, ~~Vertical Plate above floors~~, Through Plate, ~~or Intercostal Plate~~ amidships		26	7/20		26	7/20
,, ~~Rider Plate~~		~~8~~	~~9/20~~		~~8~~	~~9/20~~
,, ~~Bulb Plate to Intercostal Keelson~~						
,, Horizontal Plates above floors		10	7/20		10	7/20
,, Angles, *For description of Keelson cut ends see plan.*	3	3	6/20	3	3	6/20
SIDE KEELSON, Angles						
,, Bulb Plate for ____ length						
,, Intercostal Plate for ____ length						
,, Attached to outside Plating with Angle						
BILGE KEELSON, Angles	3	3	6/20	3	3	6/20
,, Bulb Plate for ____ length						
,, Intercostal Plates for ____ len.						
,, Attached to outside Plating with Angle						
BILGE STRINGER, Angles						
,, Bulb Plate for ____ length						
,, Intercostal Plates for ____ len.						
,, Attached to outside Plating with Angle						
SIDE STRINGER, Angles Inclanks	5	3	6/20	5	3	6/20
,, Bulb Plate for 3/5 length at each end	9		9/20		9	9/20 & 6/20
,, Intercostal Plate for 4 lengths ~~bm~~	3	3	6/20	3	3	
,, Attached to outside Plating with Angle						
Main Deck Stringer Plate, on end of Beams, breadth and thickness		28	6/20		28	6/20
,, Angle on ditto		3 × 3	6/20	3 × 3		6/20
,, Tie Plates fore and aft, outside Hatchways						
,, Diagonal Tie Plates on Bms., No. of Prs.						
,, Flat of Deck*, material and thickness						
,, ,, ~~Iron or~~ Steel for Whole length		6/20			6/20	
,, How fastened to Beams		Riveted				
Lower Deck Stringer Plate, on ends of Beams, breadth and thickness						
Is the Stringer Plate attached to the Outside Plating?						
,, Angles on ditto, No.						
,, Tie Plates, outside Hatchways						
,, Diagonal Tie Plates on Bms., No. of prs.						
,, Flat of Deck, material and thickness						
,, How fastened to Beams						
Hold Stringer Plate, on end of Beams						
Is the Stringer Plate attached to the Outside Plating?						
,, Angles on ditto, No.						
,, Tie Plate outside Hatchways						
,, Flat of Deck, material and thickness						
Poop or Bridge Deck Stringer Plate, breadth and thickness						
,, ,, Angle						
,, Tie Plates on Beams						
,, Flat of Deck, material and thickness						
Forecastle Deck Stringer Plate, b'dth & thkns						
,, ,, Angle						
,, Tie Plates on Beams						
,, Flat of Deck, material and thickness						

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

PLATING.

	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as	16ths or 20ths per Rule Approved.
FLAT PLATE KEEL, breadth and thickness				
PLATES in Garboard Strakes, br'dth & thickn's	30	7/20	30	7/20
,, from Garboard to lower part of Bilges *State Thickness of Plating in way of Double Bottom.*		6/20 & 5/20		6/20 & 5/20
,, **Bilges,** number of Strakes, and thickness	One	7/20 & 6/20		7/20 & 6/20
,, Of doubling at Bilge, or increased thickness, and length applied				
,, from up. part of Bilge to lr. edge of Sh'rstrake		6/20 & 5/20		6/20 & 5/20
,, Strake in way of Lower Deck Beams				
,, **Sheerstrake,** breadth and thickness	31 × 7/20		31	7/20
,, Poop or Bridge Sides				
,, Forecastle Sides				
Lengths of Plating		24ft		

Form No. 1 D.—2.00—T. & S.—31-5-90.

ROBERT EDMUND TAYLOR & SON, Printers, 19, Old Street, Goswell Road, London.

54368 Lon

Ceiling betwixt Decks, thickness and material
„ in hold do. do. 2" T. Pine

Number of Breasthooks One
„ Crutches —

BULKHEADS. No. in Vessel Six Reqd. by Rule One.

	Thickness.	Angles.	Spacing.	Height up.	Sngl or Dbl. Frames.
Collision W. T. Bulkheads	5/20	Vrtcl. 3×3×4/20 Hrzntl. 3×3×4/20	30 48	To upper Dk	Double.
Tank bulkhds ~~Partitions~~	6/20	Vrtcl. 6½×3×8/20 Bulb Angles Hrzntl. 6½×3×8/20	30 48	To upper Dk	Double
Middle line not W.T. Longitudinal	5/20	Vrtcl 3×3×4/20	21	To upper Dk	Double

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 5/8 in. Rivets, about 4½ apart.
The **REVERSED ANGLES** on floors and frames extend from – – – – – – – middle line to Side Stringer and to Gunwale 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" 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 3" ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, ~~treble or~~ double riveted; ~~treble~~ for whole lgth.; with rivets ¾ in dia., averaging 2½ ins. from cr. to cr.
„ „ „ ~~overlapped for length, treble riveted for length; with rivets in dia., averaging ins. from cr. to cr.~~
Butts of One Strakes at **Bilge** for 3/5ths length, treble riveted with Butt Straps 1/20 thicker than the plates they connect.
Edges from Bilge to Sheerstrake, worked clencher, ~~double or~~ single riveted; with rivets 5/8 in. diameter, averaging 2 7/8 ins. from centre to centre.
Butts from Bilge to Sheerstrake, worked carvel, ~~treble or~~ double riveted; ~~treble~~ for whole lgth.; with rivets 5/8 in. dia., averaging 2¼ ins. from cr. to cr.
„ „ „ ~~overlapped for length, treble riveted for length; with rivets in dia., averaging ins. from cr. to cr.~~
Edges of Sheerstrake, Double riveted. **Butts of Sheerstrake,** treble riveted for 3/5ths length amidships.
Butts of Main Stringer Plate, ~~treble~~ Double riveted for whole length amidships. **Single ~~or Double~~ Straps to Stringer Plate,** for whole length ~~amidships~~.
~~**Butts of Inner Bottom Plating,** riveted for length amidships.~~ ~~**Butts of Centre Girder,** riveted.~~
Breadth of edge laps of Shell Plating in double riveting 4 3/4 **Breadth of edge laps of Shell Plating** in single riveting 2 3/4
Butt Straps of Shell Plating, breadth and thickness 10" & and 8/20 5/8 ~~**Butts, If Lapped,** breadth of Laps~~
Butt Straps of Keelsons, ~~**Stringer and Tie Plates,**~~ treble ~~or double~~ riveted?

State whether Rivets are of Iron or Steel.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. Palmer's Shipbuilding & Iron Co. Ltd.

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? No
Are the butts of Plating, Stringers, &c., properly shifted and strapped ~~or lapped~~? Yes.

MASTS AND SPARS.

		Material.	Total length.	Diameter and Thickness. At Partners.	Heel.	Hounds.	Head.	Number of Plates in Round.	Angles. Number.	Angles. Size.	Riveting. Seams.	Riveting. Butts.
Lower Masts	Fore	P. Pine	64.9	14"	13"		10"					
	Main	"	64.5	14	13		10					
	Mizen											
	Jigger											
Bowsprit		"	22.0		10½	12	11½					
Topmasts	Fore	Pine	31.0		10		3¼					
	Main	"	32.0		10		3¼					
	Mizen											
	Jigger											
Yards	Fore	"	54.0	At Centre	11	At Ends	5"					
	Main			„		„						
	Crossjack			„		„						
	Jigger			„		„						
Fore Topmast Yards ~~Upper~~ = Top Gall Yard	Lower	"	42.0	„	8	„	4					
	~~Upper~~	"	30.0	„	7	„	3½					
Main	Lower			„		„						
	Upper			„		„						
Mizen	Lower			„		„						
	Upper			„		„						
Jigger	Lower			„		„						
	Upper			„		„						

Remainder of **Spares** Pine.
Rigging. Material and Size, **Shrouds** Steel Wire 2½ **Stays** Steel Wire 1¾ Quality Good
Sails, One Suit of Sails, and the following Spare Sails

EQUIPMENT No. 5087 LETTER f. ANCHORS.

Number of Certificate.		Weight, Ex. Stock Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test. per Certificate. Tons.	cwts	qrs.	lbs.	Weight Req. per Rule Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
15754	1st Bower	7	1	21	1	3	7	9	11	2	7	7	1	-	Ordinary	J. Green	Tipton Nov. 18th/92
15755	2nd „	7	1	1	1	3	7	9	11	2	7	7	1	-			"
	3rd „															Old Hill	
	4th „											14	2	-			
	Collective weight	14	2	3													
75153	Stream	2	1	0	2	7		4	15	-	-	2	1	-		W. Bradley	"
✓	Kedge	1	"	"	-	-	-					1	1	-			½ E.R. Smith
	2nd Kedge																

If Patent state Name of Patentee.

CHAIN CABLES.

Number of Certificate.	Fathoms	Size.	Test per Certificate. Tons.	Weight of Chain Cable.	Fathoms & Size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
13451	90	1"	27	45.2.5	165. 1"	Stud link	J. Green Old Hill	Tipton Nov. 23rd/92 " "
13452	75	1	27	38.3.20				
Iron Stream Chain ~~or Steel Wire~~	45	9/16	8 4/10	29.3.17	45. 9/16	"	W. Bradley	" Dec. 7th/92
Towline, if steel wire	75	2¾	Steel Wire					

HAWSERS AND WARPS

Material.	Fathoms	Size.	Fathoms & Size. Per Rule.
Towline	90	4"	90. 4"
Hawser	75	6½	75. 6½

Boats Two 16.0 & 14.0
Pumps, Number 3. Two 4" & one 3" Diameter of Barrel and Tail Pipe 4" & 2"
Windlass Emerson Walkers Capstan None
Number and dimensions of **Scuppers,** and number and dimensions of **Freeing Ports** 3 each side - 3 freeing ports each side 18"×15".

Cargo Hatchways.—How formed? As per rule **Hatches.** If strong and efficient? Yes. Solid 2½.
State size **No. 1 Hatch** (Forward) 7.0×6.0 **No. 2 Hatch** 10.6×7.6 **No. 3 Hatch** ✓
Number of ~~**Web Plates, Shifting Beams, and**~~ **Fore** and **Afters** to each hatch One.

Bulwarks, Height above deck and description 3.0 Main Rail, material and size Iron 6"×3" Topgallant Rail ✓

The above is a correct description.
Builder's Signature (here only.) Jos Mackson The Thames Iron Works Blackwall

Surveyor's Signature Robert T. Johnson
Surveyor to Lloyd's Register of British and Foreign Shipping.

Form 1 B

5H368 Lon

Order for Special Survey No. 18614
Date 26/9/92
Order for Ordinary Survey No.
Date
No. H. 96 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: Oct. 5th 10. 11. 17. Nov. 2. 8. 14. 26. 30. Dec. 8th 12. 21. 22nd (1892)
2nd. On the plating during the process of riveting: Jan. 2nd 9. 13. 18. 20. 21. 23. 25. 26. 28. 31st (1893)
3rd. When the beams were in and fastened, and before the decks were laid: Feb. 2. 4. 9. 15. 17. 21. March 2. 7. 11. 15. 18. 23. 28.
4th. When the ship was complete, and before the plating was finally coated or cemeted: April 1. 12. 21. 26.
5th. After the ship was launched and equipped: May 2. 5. 12. 17th

Total No. of Visits 45.

State dates and initials of letters respecting this case: Sep. 1st 1892. Sep. 22nd Sep. 27th, Jan. 26th 1893. Feb. 2nd 14th 25th "JT."

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

This vessel has been built under Special Survey in accordance with the Society's Rules for Steel Vessels and the approved drawings, for the purpose of carrying Tar in bulk.

The workmanship and materials are of good quality, the steel tested as required by the Rules, and eligible in my opinion to be classed, -

100. A. 1. "Steel" - Carrying Tar in bulk. -

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

PARTICULARS FOR RECORD IN THE REGISTER BOOK.

Length of Poop - ft., R.Q.D. or Break - ft., Bridge Dk. - ft., Forecastle - 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: 1 Dk. Steel, 1 tr. B.

Official No. 101993 Signal Letters -

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 36. 9 and water capacity in tons 300 tons. Other tanks, if fitted, length ..... and water capacity in tons .....
Divided into four parts by water tight bulkheads

The above have - - - - - - been tested as required by the ~~Rules~~. Secretary's letter Sep. 22nd 1892.

(If necessary, furnish further information by sketch.) See approved drawings.

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

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated April 28th 1893

State if marked on Vessel's sides in accordance with Notice No. 572 Yes

2	ft. 2	ins.	In Salt Water
1	ft. 11	ins.	In Fresh Water
2	ft. 5	ins.	In Winter, in North Atlantic

Statutory Sh. line
To top of ~~Wood, Iron~~ or ~~Steel~~ upper deck.
Stat. Sh. line 1" above Deck.

The amount of Entry Fee ..... £ 2 : - : - applied for 25/5/93 is received by me, 12/6/93

Special .... £ 9 : 15 : -

Certificate* £ - : - : -

Travelling Expenses, if any £ - : - : -

* Certificate to be sent to

I am of opinion this Vessel should be Classed 100 A.1. "Steel" Carrying Tar in bulk.

Robert T. Johnsone.
Surveyor to Lloyd's Register of British & Foreign Shipping.

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

Committee's Minute

FRI 26 MAY 1893

Character assigned 100 A1 Steel Carrying Tar in bulk

Large

W.D.M. 1 Dk (Stl.)

This Vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted that she is eligible to be classed ✠ 100 A1 ("Steel") "Carrying Tar in bulk" as recommended.

✠ 100 A1 ("Steel") Carrying Tar in bulk
1 Dk (Stl.)