

3 Decks.

## IRON OR STEEL STEAMER.

MON. 27 NOV 1899

Received at London Office

Date of completion of report

25th November 1899

Port of

WEST HARTLEPOOL

Survey held at

Hartlepool

Date, First Survey

17th February

Last Survey

21st November 1899

In the

Steel S.S. Manchester Commerce

Rig

Schooner

TONNAGE under

5126.86

Tonnage Deck

Do. between Tonnage Dk.

and 3rd and 4th Dk.

Total under Upper Dk.

5125.86

Do. of Poop

54.37

Do. of Forecastle

46.65

Do. of Houses on Dk.

110.97

Do. of excess of Hatchways

34.79

Do. above Crown of

Engine Room

Gross Tonnage

5362.64

Less Crew Space

139.23

Less above Crown of

Engine Room

TONNAGE for FEES

5223.41

Less Engine Room

1716.04

Less Navigation Spaces

63.15

Master Tonnage

3444.22

as cut on Beam

THREE DECKED VESSEL.

CLASS 100A1 Steel

FEET.

Half Breadth (moulded)

23.92

Depth from upper part of Keel to top of Upper Deck Beams (with the normal round up of beam)

35.00

Girth of Half Midship Frame (as per Rule)

54.25

deduct 7 feet

113.17

7.0

1st Number

106.17

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

42.8

2nd Number

45450.

Proportions—Breadth to Length

8.95

Depth to Length—Upper Deck to top of Keel

12.23

Main Deck ditto

15.6

Destined Voyage

Riv. Tyne

Surveyed while Building Afloat, in position

Master

J. Baster

Year of appointment

(1) As Master in service of owner of present vessel—1899.

(2) As Master of this vessel—1899.

Built at

West Hartlepool.

When built

1899. Launched 21.8.99.

By whom built

Furness Witherby &amp; Co. Ltd.

Owners

Manchester Liners. Ltd.

Managers

Residence Manchester.

Port belonging to

Manchester

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Feet.	Inches.	No. of Decks with flat laid
as per Rule	428	0	Moulded	47	10	Top of Floors to top of Upper Dk. Beams	31	0	two
						Do. do. do. do. Main Dk. Beams	23	3	No. of Tiers of Beams three

Dimensions of Ship per Register, Length 430.7 breadth 48.2 depth 30.8. Moulded depth, ft. 34 ins. 0 To Upper Dk. Round of Upper Dk. Beam, Actual -12 ins.

FRAMING.							FORGINGS or CASTINGS.							Inches in Ship.		Inches per Rule.	
														Inches in Ship.		Inches per Rule.	
FRAME, Angle, Bars for 1/3 length amidships							KEEL, Bar or Side Plates, depth and thickness							12 x 3 1/8		12 x 3 1/8	
Do. for 1/3 at each end							STEM, moulding and thickness							12 x 7 3/4		12 x 7 3/4	
Do. in way of Double Bottoms at Solid Floors							STERN-POST for Rudder do. do.							12 x 7 3/4		12 x 7 3/4	
" " " " " " " "							" for Propeller							10 1/2		10 1/2	
Distance of Frames from moulding edge to moulding edge, all fore and aft							MAIN PIECE of Rudder, diameter at head							5 1/4		5 1/4	
REVERSED FRAME, Angles							" " do. at heel							5 1/4		5 1/4	
FLOORS, depth and thickness of Floor Plate							RUDDER, how constructed							yes		yes	
" in way of Engines and Boilers							Can the Rudder be unshipped afloat?										
" thickness at the ends of vessel							KEELSONS & STRINGERS.										
" depth at 1/3 the half breadth, as per Rule							CENTRE LINE KEELSON, Vertical Plate above floor, Through Plate, or Intercoastal Plate										
" height extended at the Bilge							" Rider Plate										
FLOORS & BRACKETS in Cell Dble Bottoms							" Rib Plate to Intercoastal Keelson										
" Distance apart							" Horizontal Plate on Floor										
CENTRE GIRDER, in Double bottom, depth and thickness							" Angles										
" Angles, Top							SIDE KEELSON, Angle										
" Bottom							" Bulb or Plate above floor, in										
SIDE GIRDERS, number on each side & thickness							" Intercoastal Plate										
" Angles							" Attached to outside Plating with Angle										
MARGIN PLATE, depth (exclusive of flange) and thickness							BLAKE KEELSON, Angle										
" Angles to Outside Plating							" Bulb or Plate above floor, in										
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake							" Intercoastal Plate										
" in Engine and Boiler space							" Attached to outside Plating with Angle										
" Remainder in Holds							BILGE STRINGER Angles										
EAMS, Upper Deck, Single Angle, Bulb							" Rib Plate										
Angle, Rib or Tee Bulb							" Intercoastal Plate for whole length										
Angles on upper edge							" Attached to outside Plating with Angle										
Average space							SIDE STRINGER Angles										
EAMS, Middle Deck, Single Angle, Bulb							" Rib										
Angle, Rib or Tee Bulb							" Intercoastal Plate, for whole lng.										
Angles on upper edge							" Attached to outside plating with Angle										
Average space							Upper Deck Stringer Plates, br'dth & thickness										
EAMS, Lower Deck, Single Angle, Bulb							" Angle on ditto										
Angle, Rib or Tee Bulb							" Tie Plates fore and aft, outside Hatchways										
Angles on upper edge							" Deck, Iron Steel, for whole lng.										
Average space							" Wood Deck, Material & thickness										
EAMS, Hold on Deck, Plate or Tee Bulb							Middle Deck Stringer Plate, br'dth & thickness										
Angles on upper edge							" Angles on ditto, No. 2										
Average space							" Tie Plates outside Hatchways										
EAMS, Poop Deck, Angle, Bulb Angle, Plate							" Diagonal Tie Plates on Bns, No. of prs.										
Angle, Rib or Tee Bulb							" Deck, Iron Steel, for whole lng.										
Angles on upper edge							" Wood Deck, Material & thickness										
Average space							Lower Deck Stringer Plate, br'dth & thickness										
EAMS, Bridge Deck, Angle, Bulb Angle, Plate							" Angles on ditto, No. 2										
Angle, Rib or Tee Bulb							" Tie Plates outside Hatchways										
Angles on upper edge							" Deck, Material and thickness										
Average space							" Deck, Material and thickness										
EAMS, Forecastle Deck, Angle, Bulb Angle, Plate							Poop Deck Stringer Plate, breadth & thickness										
Angle, Rib or Tee Bulb							" Angle on ditto										
Angles on upper edge							" Tie Plates										
Average space							" Deck, Material and thickness										
CLARS, In 'tween Deck, size and spacing							Bridge Deck Stringer Plate, br'dth & thickness										
" Hold							" Angle on ditto										
" Quarter 'tween Dks.,							" Tie Plates										
" in Hold							" Deck, Material and thickness										
EB-FRAMES, In Fore Body, No. and spacing							Forecastle Deck Stringer Plate, br'dth & th'kns										
" br'dth. & thickness							" Angle on ditto										
" No. of Side Stringers							" Tie Plates										
" Size of Angles or Tee Bars to Web-Frames							" Deck, Material and thickness										
BRACKET PLATES to Stringers, breadth and thickness							BULKHEADS.										
Web-Frames, depth and thickness							Number.										
							In Vessel.										
							Per Rule.										
							Thickness.										
							Horizontal.										
							Vertical.										
							Size.										
							Spacing.										
							Single or Double Frames.										
							Height up.										
							</										



PLATING.										RIVETING.																																																																																																									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES.				BUTTS.																																																																																																						
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Thickness.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what Length.	RIVETS.	STRAPS.	IF LAPED.																																																																																																			
	Inches.	16ths or 20ths.	16ths or 20ths.	16ths or 20ths.	Inches.	16ths or 20ths.	16ths or 20ths.	16ths or 20ths.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.																																																																																																			
FLAT PLATE KEEL.....	48	20	14	14	48	20	14	14	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
Garboards A Strake.....	51	15	13	13	51	15	13	13	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
B ".....	12	10	10	10	12	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
C ".....	12	10	10	10	12	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
D ".....	12	10	10	10	12	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
E ".....	14	11	11	11	14	11	11	11	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
F ".....	14	11	11	11	14	11	11	11	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
G ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
H ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
I ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
J ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
K ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
L ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
M ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
N ".....	13	10	10	10	13	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
O ".....	15	10	10	10	15	10	10	10	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
P ".....	52	15	12	12	52	15	12	12	double	6	1	1 1/8	treble	1	3 1/2	19																																																																																																			
Q ".....																																																																																																																			
DOUBLING OF PLATE KEEL.....	Under Rule width.																																																																																																																		
Length and thickness of Sheerstrakes.....	Doubled whole width for 3/4 th length.																																																																																																																		
POOP SIDES.....	8x7																																																																																																																		
BRIDGE SIDES.....	8x7																																																																																																																		
FORECASTLE SIDES.....	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.?																																																																																																																			
Mild Steel: - Forman Long & Co. S. Durham & Co. Iron: - Jno Hill & Co. S. Durham & Co.																																																																																																																			
Has the Steel been tested as required by the Rules? Yes.																																																																																																																			
FRAMES extend in one length from tank sides to gunwall.																																																																																																																			
REVERSED FRAMES on floors are double in engine and boiler space; floors flanged at other parts; bulk angle framing above tank sides.																																																																																																																			
MASTS, SPARS, &c.																																																																																																																			
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Topmasts, Yards and Remainder of Spars.....																																																																																																																			
Rigging, Material and Size, Shrouds.....																																																																																																																			
Sails.....																																																																																																																			
EQUIPMENT No. 50154 LETTER L																																																																																																																			
ANCHORS.																																																																																																																			
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35976	3rd "	54	20	0	54	20	0	0	54	20	0	0	0	0	0	0	0																																																																																																		
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	Collective weight	182	20	0	182	20	0	0	182	20	0	0	0	0	0	0	0																																																																																																		
CHAIN CABLES.																																																																																																																			
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Boats Four life boats and two others. Two manual pumps connected to hold tanks.																																																																																																																			
Pumps, Number as per approved plan. Diameter of Barrel 6 ins. State whether they are in efficient working order.																																																																																																																			
Windlass is by Clarke Chapman & Co. 2 eight capacity steam winches: food.																																																																																																																			
Engine Room Skylights. How constructed? Iron hood, on iron casing: 7.6' above 13. deck.																																																																																																																			
What arrangements for deadlights in bad weather? Thick glass bull eyes in iron lids.																																																																																																																			
Coal Bunker Openings. How constructed? Plate coamings. How are lids secured? Hatches & bottom Height above deck: 15' at 13. dk.																																																																																																																			
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Fourteen scuppers on cattle dk. ca. side																																																																																																																			
Ceiling in Holds, thickness and material 2 1/2" R.P. Ceiling 'tween Decks, thickness and material 2" H.P. sparring.																																																																																																																			
Cargo Hatchways. How formed? Plate coamings 18 ins. at dk. Hatches, If strong and efficient? Solid 3" H.P.																																																																																																																			
State size No. 1 Hatch (Forward) 12.4' x 12.4' No. 2 Hatch 12.4' x 16.0' No. 3 Hatch 18.6' x 16.0' No. 4 Hatch 12.4' x 16.0'																																																																																																																			
Number of Web Plates, Stiffing Beams and Fore and Afters to each Hatch 6 one deep 12.4' x 16.0' and three fore & afters in each hatchway.																																																																																																																			
No. of Breasthooks 6 1/2 deep floor No. of Crutches 2 1/2 deep floor																																																																																																																			
Bulwarks, height above deck and description. Open forward rails & Main Deck material and size stanchion on weather (dk).																																																																																																																			
The above is a correct description.																																																																																																																			
Builder's Signature (here only) Per J. Mills																																																																																																																			
Surveyor's Signature C. E. Burney																																																																																																																			
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)

1898:—26<sup>th</sup> July M; 12<sup>th</sup> Sept. M; 30 Sept. M; 9<sup>th</sup> Nov. M; 28<sup>th</sup> Dec. M; 15<sup>th</sup> Feb. 8.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed. Freeboard 17/11/99.

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? No.

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. Satisfactory.

General Remarks (State quality of workmanship, &c.) The workmanship is good and the vessel has been constructed in accordance with the approved plans, seven in number which together with the Reports on the forgings, & castings, and a letter from the owners giving their consent to the use of black enamel cement in the bottom of the vessel, are attached hereto.

The tunnel has been tested with a strong force of water from hose, and found satisfactory.

List of plans. 1. Midship Section 4. Stringers way water: 7 Pump plan.  
2. Profile. 5. Cast steel quadrant stiller.  
3. Amended Erection. 6. Mast Plan.

Sister vessel to C. E. Manchester Corporation. W. H. R. R. No 11003.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 20 ft., R. Q. Deck 8 ft., Bridge Dk. 8 ft., F'castle 42 ft. (in feet and tenths). When the Poop is joined to the R. Q. Deck, this should be distinctly stated (a temporary shelter dk. of pine for cattle shelter, is fitted between fore & bridge, and bulwark poop.

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) 2 Dks. (Lk.). 3 to 13ms.

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside Black enamel cement. Outside Paint. Paint.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with g'rders on floors Cellular

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft.	139.5	316.	Fore peak tank,		58.
Double bottom, under Engines and Boilers,	62.5	214.	After peak tank,		20.
Double bottom, under Engines only,			Midship deep tank,	29.	536.
Double bottom, under Boilers only,			Underwater tank,		
Double bottom, forward,	162.5	470.	(If necessary, furnish further information by sketch.) See pumping plan.		

\* The wells are not to be included in the lengths of the tanks. no. State whether the above have been tested as required by the Rules. Yes.

Order for Special Survey No. 1742

Date 30th July 1898

No. 244 in builder's yard

Days of Surveys held while building 1899 Feb. 17, 20, 27, Mar. 1, 2, 6, 8, 11, 13, 15, 17, 20, Apr. 5, 10, 13, 17, 20, 24, 28, May 2, 5, 6, 9, 10, 15, 18, 20, 30, June 1, 6, 12, 15, 18, 21, 24, 26, 27, 28, July 1, 3, 5, 8, 11, 13, 14, 18, 21, 24, 26, 27, 28, 29, 31, Aug. 1, 2, 3, 4, 5, 14, 16, 18, 22, 24, 28, Sept. 1, 4, 26, 28, 29, Oct. 2, 6, 9, 16, 17, 20, 23, 25, 30, Nov. 3, 7, 10, 13, 14, 17, 18, 21.

Total No. of Visits 87

The amount of Entry Fee..... £ 5 : 24. 11. 1899

Special Survey Fee..... £ 15 : 11. 6

Travelling Expenses, if any £ : 24. 11. 1899

Received by me, C. E. Burney.

State whether the Vessel has been built under Special Survey Yes.

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

Without Freeboard, as condition of Class.

Committee's Minute TUES. 28 NOV 1899

Character assigned 100A1 Steel

Wants Hpl

Full Certificate Written.