

1 or 2 Dks., ~~R.Q.Dk.~~,  
and Pt. Awng. Dk.

# IRON OR STEEL STEAMER.

No. 48689

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

Date of completion of Report *April 19<sup>th</sup> 1905*

Date, First Survey *2<sup>nd</sup> Dec 1904*

Received at London Office

Port of *Newcastle on Tyne*

Last Survey *18<sup>th</sup> April 1905*

Rig *✓*

Survey held at *South Shields*

On the *Paddle Tug "RITON"*

TONNAGE under *141.40*

Do. of Poop

Do. of Raised Qr.

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

ONE ~~DECKED~~ DECKED VESSEL.

CLASS *100 A*

FEET.

Half Breadth (moulded) *10.0*

Depth from upper part of Keel to top of Main Deck Bms. *11.0*

Girth of Half Midship Frame (as per Rule) *18.5*

1st Number *39.5*

Length on deck from after part of stem to fore part of stern post *99.0*

2nd Number *3910*

Proportions—Breadths to Length *4.95*

Depths to Length—Main Deck to top of Keel *9.0*

Destined Voyage *Manchester* *✓* Surveyed while Building, Afloat, *✓* in Dry Dock

Master

Year of appointment *(1) As master in service of owner of present vessel:—19*

Built at *South Shields*

When built *1905* Launched *March 8<sup>th</sup> 1905*

By whom built *J.T. Eltringham & Co*

Owners *Manchester Ship Canal Co*

Managers *do*

Residence *Manchester*

Port belonging to *Manchester*

LENGTH on Deck as Feet. Inches. BREADTH—Feet. Inches. DEPTH, ACTUAL—Feet. Inches. No. of Decks with Flat laid *one*  
per Rule *99 0* Moulded *20 0* Top of Floors to top of Main Deck Beams *10 0* No. of Tiers of Beams *one*  
Dimensions of Ship per Register, Length, *100.0* breadth, *20.15* depth, *10.0* Moulded Depth, *10* ft. *4* ins. Round of Beam, Actual *8* ins.

FRAMING.							FORGINGS AND CASTINGS.							
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or a	Inches per Rule s Appro	16ths per Rule ved.		Inches in Ship.			Inches per Rule. Or as Approved.			
FRAME, Angles, <del>For</del> Bars, for full length amidships	3	2 1/2	5	3	2 1/2	5	KEEL, Bar or Side Plates depth and thickness	6 x 1 1/4		6 x 1 1/4		6 x 1 1/4		
Do. for 1/2 at each end	✓						STEM, moulding and thickness	6 x 1 1/4		6 x 1 1/4		6 x 1 1/4		
Do. in way of Double Bottoms at Solid Floors	✓						STERN-POST for Rudder do. do.	5 1/2 x 1 1/8		5 1/2 x 1 1/8		5 1/2 x 1 1/8		
Do. in way of Double Bottoms at intermdt. Bkts.	✓						for Propeller	nil		✓		✓		
Spacing of Frames from centre to centre	21			21			MAIN PIECE of Rudder, diameter at head	3 1/2		3 1/2		3 1/2		
REVERSED FRAME, Angles	2 1/2	2 1/2	5	2 1/2	2 1/2	5	do. at heel	2 3/4		2 3/4		2 3/4		
DEEP FRAMING, depth of girder	✓						RUDDER, how constructed	forging, shrunk arms & single plate						
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	12		5	12		5	Can the Rudder be unshipped afloat?	Yes						
Do. in way of Engines and Boilers		6 x 7			6 x 7		KEELSONS AND STRINGERS.							
Do. thickness at the ends of vessel		5			5		CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	✓						
Do. depth at 1/2 the half breadth, as per Rule							do. Rider Plate	5		5				
Do. height extended at the Bilges	24			24			do. Bulb Plate to Intercoastal Keelson	✓						
FLOORS & BRACKETS, in Cell Dble Bottoms	✓						Angles for 1/2 of MACH. SPACE	4	4	8	4	4	8	
Do. state if flanged (top & bottom)	✓						Horizontal Plates on Floors	4	4	8	4	4	8	
Do. Spacing	✓						Angles in MACHINERY SPACE	3	3	6	3	3	6	
CENTRE GIRDER, in Double Bottom, depth and thickness	✓						SIDE KEELSON, Angles							
Do. Angles, Top	✓						do. Bulb or Plate above floors for lng.							
Do. Bottom	✓						Intercoastal Plate for length							
SIDE GIRDERS, number on each side & thickness	✓						Attached to outside plating with Angle							
Do. state if flanged (top & bottom)	✓						BILGE KEELSON, Angles	5	3	7	5	3	7	
Do. Angles	✓						do. Bulb or Plate above floors for lng.							
MARGIN PLATE, depth (exclusive of flange) and thickness	✓						Intercoastal Plate for length							
Do. Angles to Outside Plating	✓						Attached to outside plating with Angle							
Do. Floors	✓						BILGE STRINGER Angles							
Do. Height of Floors at the Bilges	✓						do. Bulb Plate for length							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	✓						Intercoastal Plate for length							
Do. thickness in Engine and Boiler space	✓						Attached to outside plating with Angle							
Do. Remainder in Holds	✓						SIDE STRINGER Angles	one	5	3	10	5	4	8
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5	3	7	5	3	7	do. Bulb or Intercoastal Plate for lng.							
Do. Angles on Upper Edge	3 1/2	2 1/2	6	3 1/2	2 1/2	6	Attached to outside plating with Angle							
Do. Spacing	42	21		42	21		Main and Raised Quarter Deck Stringer Plate, breadth and thickness	23	6	23	6			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	✓						do. Angle on ditto	3 x 3	6	3 x 3	6			
Do. Angles on Upper Edge	✓						do. Tie Plates, outside Hatchways	7	6	7	6			
Do. Spacing	✓						do. Diagonal Tie Plates on Bms. No. of Pairs	✓						
BEAMS, Hold, Plate or Tee Bulb	✓						do. Main Dk* Iron or Steel	5			5			
Do. Angles on Upper Edge	✓						do. R. Q. Dk* Iron or Steel for lng.	✓						
Do. Spacing	✓						do. Wood Deck, Material & thickness	P.P.	3	P.P.	3			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						Lower Deck Stringer Plate, breadth and thickness							
Do. Angles on Upper Edge	✓						do. Angles on ditto, No.	✓						
Do. Spacing	✓						do. Tie Plates, outside Hatchways							
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						do. Deck* Material and thickness							
Do. Angles on Upper Edge	✓						HOLD STRINGER PLATE	✓						
Do. Spacing	✓						do. Angles on ditto, No.							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						POOP DECK STRINGER PLATE, breadth & thickness							
Do. Angles on Upper Edge	✓						do. Angle on ditto	✓						
Do. Spacing	✓						do. Tie Plates							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						do. Deck, Material and thickness							
Do. Angles on Upper Edge	✓						BRIDGE OR PT. AWNING DECK STRINGER PLATE, breadth and thickness	✓						
Do. Spacing	✓						do. Angle on ditto	✓						
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						do. Tie Plates							
Do. Angles on Upper Edge	✓						do. Deck, Material and thickness							
Do. Spacing	✓						FORECASTLE DECK STRINGER PLATE, brdth & thcknss	✓						
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓						do. Angle on ditto							
Do. Angles on Upper Edge	✓						do. Tie Plates							
Do. Spacing	✓						do. Deck, Material and thickness							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓													
Do. Angles on Upper Edge	✓													
Do. Spacing	✓													
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓													
Do. Angles on Upper Edge	✓													
Do. Spacing	✓													
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓													
Do. Angles on Upper Edge	✓													
Do. Spacing	✓													
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Do. Spacing	✓													
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Do. Spacing	✓													
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Do. Spacing	✓													
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓													
Do. Angles on Upper Edge	✓													
Do. Spacing	✓													
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	✓													
Do. Angles on Upper Edge	✓													



**PLATING.**

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES. Ordinary or Joggled?				BUTTS.			
	AMIDSHIP.		AFT.		Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Triple and for what Length.	Diam.	Spacing or to cr.	
	Breadth.	Thickness.	Thickness.	Thickness.										
FLAT PLATE KEEL (If Bar Keel, state Riveting)														
GARBOARD OR A Strake	34	4	4	4	30	4	double	5 1/2	1	5	double	3/4	2 1/2	
B "	39	6	5	5	6	6	"	2 1/2	"	"	"	"	5" full	
C "	43	6	5	5	6	6	"	2 1/2	"	"	"	"	"	
D "	34	6	5	5	6	6	"	2 1/2	"	"	"	"	"	
E "	44	6	5	5	6	6	double	4 1/2	"	"	"	"	"	
F "	39	4	6	6	30	4								
G "														
H "														
J "														
K "														
L "														
M "														
N "														
O "														
P "														
DOUBLING OF Flat Plate Keel														
Length and thickness of Bilges														
Length and thickness of Sheerstrakes														
Length and thickness of Strake below														
POOP SIDES														
RAISED QUARTER DECK SIDES														
BRIDGE SIDES														
FORECASTLE SIDES														
LENGTHS OF PLATING	seven spaces													

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, outside Plating, &c. *Smith Durham & Co Ltd*  
*Honsett Iron Co Ltd*  
*Siemens-Martin*  
 Has the Steel been tested as required by the Rules *Yes*

FRAMES extend in one length from *keel* to *gunwale* state if ordinary or joggled *ordinary*  
 REVERSED FRAMES on floors and frames extend from *upper turn of bilge to upper turn of bilge, double in engine space carried to deck in way of paddle wheels* state if ordinary or joggled *ordinary*

**MASTS, SPARS, &c.**

LOWER MASTS...	Material.	Total length.	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Head.		Number.	Size.	Seams.	Butts.
Fore	<i>Norway's Spar</i>	<i>45-9"</i>	<i>8 1/2"</i>							
Main										
Mizen										

Bowsprit  
 Topmasts, Yards and Remainder of Spars *nil*  
 Rigging, Material and Size, Shrouds *1 1/2 wire*  
 Sails. *Sails* Suit of *Sails* and the following spare sails *Stay 2" wire*

Equipment No. *Letter* *ANCHORS.* Tonnage U.D.K. or Plating No. for Trawlers *3910*

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 22.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
5941	1st Bower	2	2	14	0	3	14	5	2	2		<i>Rodgers</i>	<i>St Taylor &amp; Sons Ltd</i>
5942	2nd "	1	3	14	0	2	14	4	4	0	21	<i>do</i>	<i>do</i>
	3rd "												
	Collective weight	4	2	0									
	Stream												
	Kedge												

**CHAIN CABLES.**

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 22.		Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Towline.	
	Length.	Diam.	Stat.	Break.	Supplied.	Per Table 22.	Length.	Diam.					Length.	Clr.	Length.	Clr.
2243	45	3/4	108	158	22	1	17		<i>Steel Link</i>	<i>St Taylor &amp; Sons Ltd</i>	<i>2 1/2 ton 10/11/12</i>	<i>TOWLINE</i>	40	5 1/2		
													40	4 1/2		

**HAWSERS AND WARPS.**

Number of Certificate.	Length and size supplied.		Breaking Test of Steel Wire Towline.	Length and Size per Table 22.
	Length.	Clr.		
	40	5 1/2		
	40	4 1/2		

Boats *one lifeboat*  
 Pumps, Number *three* Diameter of Barrel *4"* State whether they are in efficient working order *Yes*  
 Windlass is *Emerson Walters hand* Capstan *nil*  
 Engine Room Skylights. How constructed? *as part of casing*  
 What arrangements for deadlights in bad weather? *bulldozers*  
 Coal Bunker Openings. How constructed? *flush scuttles* How are lids secured? *locked* Height above deck? *flush*  
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *scuppers freeing ports*  
 Ceiling in Holds, thickness and material *nil* Cargo Battens, thickness and material *nil*  
 Cargo Hatchways. How formed? *nil* Hatches. If strong and efficient? *Yes*  
 State size No. 1 Hatch (Forward) *nil* No. 2 Hatch *Yes* No. 3 Hatch *Yes* No. 4 Hatch *Yes*  
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *Yes*  
 No. of Breasthooks *one deck* No. of Crutches *Yes*  
 Bulwarks, height above deck and description *3'0" Steel plates 1/2" thick* Main Rail and Stays, material and size *Rail 5x2 1/2x7/20 Bull Angle 1 1/2x4*  
 The above is a correct description.  
 Builder's Signature (here only) *J. J. Cunningham & Co* Surveyor's Signature *Thos Shaw*  
 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 the case)  
*M 24/10/04 E 9/5*

**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? *a very 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 *good*  
 Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes* State results of tests *good*

**General Remarks** (State quality of workmanship, &c.) *This vessel has been built in accordance with the approved plans, the Secretary's letters and otherwise in general conformity with the Rules. The materials and workmanship are good*  
*Approved plans (3 in No) are enclosed herewith*

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

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop *✓* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *✓* ft., F'castle *✓* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. 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 dk (pl/ste)*  
 Official No. *251*; Signal Letters *no* State if Machinery is fitted aft *no*  
 How are the surfaces preserved from oxidation? Inside *portland cement paint* Outside *paint*

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

Where fitted.	*Length.		Water Capacity.	Where fitted.	*Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft.				Fore peak tank.			
Double bottom, under Engines and Boilers.				After peak tank.			
Double bottom, if under Engines only.	✓	✓		Deep tank, aft.	✓	✓	
Double bottom, if under Boilers only.				Deep tank, forward.			
Double bottom, forward.				Other tanks, if fitted.			

Total capacity *(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.

Order for Special Survey No. *3639* *1905 Dec 27 14 21 29 1905 Jan 5 13 23 25 Feb 6 13 16 23 17 24 24 Apr 5 11 18*  
 Date *20.12.04*  
 No. *251* in builder's yard.

The amount of Entry Fee *£ 1* : : : Fees applied for, *20 APR 1905*  
 Special *£ 7* : : : Received by me, *EJS*  
 Travelling Expenses, if any *£ 2.50*  
 State whether the Vessel has been built under Special Survey *Yes*  
 I am of opinion this Vessel should be Classed *\* 100 A- for towing purposes*  
 With, or without Freeboard, as condition of Class *without*

Committee's Minute *100 A - (SH)*  
 Character assigned *for towing purposes*  
*\* Lme 4.05*  
*WED. 25 APR 1905*  
 Surveyor to Lloyd's Register of British and Foreign Shipping. *Thos Shaw*