

1 or 2 Dks & R. Q. Dk.,  
and Pl. Awng. Dk.

# IRON OR STEEL STEAMER.

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

Date of completion of Report *14<sup>th</sup> July 1906*

Date, First Survey *7<sup>th</sup> October 1905*

Port of *Sunderland*

Last Survey *7<sup>th</sup> July*

1906.

Rig *Fore & Aft schooner.*

Master *B. Hutcheon*

Year of appointment *1890*

Built at *Sunderland.*

When built *1906.* Launched *5<sup>th</sup> June 1906.*

By whom built *Messrs. P. Austin & Son Ltd.*

Owners *Belton Steamship Coy Ltd.*

Managers *Messrs. Gardiner & Reay.*

Residence *Newcastle.*

Port belonging to *Newcastle.*

Survey held at *Sunderland*  
On the *steel screw steamer "Tosno"*

TONNAGE under  
Tonnage Deck *1431.29*  
Do. of Poop *54.78*  
Do. of Raised Qr. *87.43*  
Do. of Bridge House *78.78*  
Do. of Forecastle *38.38*  
Do. of Houses on Deck *6.87*  
Do. of excess of Hatchways *57.85*  
Do. above Crown of Engine Room *1755.38*  
Gross Tonnage *81.33*  
Less Crew Space  
Less above Crown of Engine Room *1674.05*  
TONNAGE FOR FEES *561.72*  
Less Engine Room *31.15*  
Less Navigation Spaces  
Register Tonnage *1081.18*  
as out on Beam

ONE ~~DECKED~~ DECKED VESSEL

CLASS *+ 100A1*

Half Breadth (moulded) *18.75*

Depth from upper part of Keel to top of Main Deck Bms. *20.50*

Girth of Half Midship Frame (as per Rule) *35.91*

1st Number *75.16*

Length on deck from after part of stem to fore part of stern post *266*

2nd Number *19992*

Proportions—Breadths to Length *7.09*

Depths to Length—Main Deck to top of Keel *12.97*

Destined Voyage *Hamburg*

If Surveyed while Building, Afloat, & in Dry Dock *Yes.*

LENGTH on Deck as per Rule *266* Feet. *0* Inches. BREADTH—Moulded *37* Feet. *6* Inches. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams *17* Feet. *5* Inches. No. of Decks with Flat laid *one* No. of Tiers of Beams *one*

Dimensions of Ship per Register, Length, *267.4'* breadth, *37.8'* depth, *17.4'* Moulded Depth, *19* ft. *9* ins. Round of Beam, Actual *9* ins.

FRAMING.					FORGINGS AND CASTINGS.				
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.
FRAME, Angles, $\frac{1}{2}$ Bars, for $\frac{1}{2}$ length amidships <i>(22.5 x 12.5 in. way of M.S.)</i>	8 1/2	3	10 9 9	3	9 8	KEEL, Bar or Side Plates, depth and thickness	9 x 2 1/2		9 x 2 1/2
Do. for $\frac{1}{2}$ at each end <i>in way of B.D.</i>	8 1/2	3	11 10 9	3	10 9	STEM, moulding and thickness	9 x 5 1/2		9 x 5 1/2
Do. in way of Double Bottoms at Solid Floors	3	3	8 7	3	8 7	STERN-POST for Rudder do. do.	" 7 1/4 "		" 7 1/4 "
Spacing of Frames from centre to centre	24		24			for Propeller	5 1/2		7 1/4 5 1/2
REVERSED FRAME, Angles <i>in tank</i>	3 1/2	3 1/2	7	3 1/2	7	RUDDER, how constructed <i>Forged &amp; built, single plate 20/20</i>			
DEEP FRAMING, depth of girder	Bulb angle deep framing					Can the Rudder be unshipped afloat	Yes.		
FLOORS, depth and thickness of Floor Plate <i>in tank</i>	37		7	37		KEELSONS AND STRINGERS.			
in way of Engines and Boilers			7 1/2		7 1/2	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
thickness at the ends of vessel			7		7	Rider Plate			
depth at $\frac{1}{2}$ the half breadth, as per Rule						Bulb Plate to Intercoastal Keelson			
height extended at the Bilges						Horizontal Plates on Floors			
FLOORS & BRACKETS, in Cell Dble Bottoms			4		4	Angles			
state if flanged (top & bottom)	no flanging					SIDE KEELSON, Angles			
Spacing	24		24			Bulb or Plate above floors for lng.			
CENTRE GIRDER, in Double Bottom, depth and thickness	37		9	37	9	Intercoastal Plate for length			
Angles, Top	3 1/2	3 1/2	9	3 1/2	9	Attached to outside plating with Angle			
Bottom	4	4	11	4	11	BILGE KEELSON, Angles			
SIDE GIRDERS, number on each side & thickness	1		4		4	Bulb or Plate above floors for lng.			
state if flanged (top & bottom)	no flanging					Intercoastal Plate for length			
Angles	3 1/2	3 1/2	7	3 1/2	7	Attached to outside plating with Angle			
MARGIN PLATE, depth (exclusive of flange) and thickness	26 1/2		8	26 1/2	8	3 SIDE STRINGERS Angle <i>in way of A. &amp; B. D.</i>	6	4	10
Angles to Outside Plating	3 1/2	3 1/2	8	3 1/2	8	Bulb Plate for length			
Floors	58 1/2		7	58 1/2	7	Intercoastal Plate for full length			
Height of Floors at the Bilges	58 1/2		7	58 1/2	7	Attached to outside plating with Angle	5 1/2	3 1/2	8
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	37		9	37	9	2 SIDE STRINGERS Angle	5 1/2	3 1/2	9
thickness in Engine and Boiler space	19 0/16		7 1/8 x 7/16		7 1/8 x 7/16	Bulb Intercoastal Plate for full lng.			
Remainder in Holds	19 0/16		7/16		7/16	Attached to outside plating with Angle	3 1/2	3 1/2	8
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	6 1/2	3	9	6 1/2	3	Main and Raised Quarter Deck Stringer Plate, breadth and thickness	46	10	38
Angles on Upper Edge <i>in way of Bridge</i>	4	3	9	4	3	Angle on ditto	4 1/2 x 4 1/2	9	4 1/2 x 4 1/2
Spacing	24		24			Tie Plates, outside Hatchways	60	10	60
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						Diagonal Tie Plates on Bms, No. of Bars			
Angles on Upper Edge						Main Dk* Iron or Steel for full lng.			
Spacing						R. Q. Dk* Iron or Steel for full lng.			
BEAMS, Hold, Plate or Tee Bulb						Wood Deck, Material & thickness			
Angles on Upper Edge						Lower Deck Stringer Plate, breadth and thickness			
Spacing						Angles on ditto, No.			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	7	5 1/2	3	Tie Plates, outside Hatchways			
Angles on Upper Edge	3 1/2	3	6	3 1/2	6	Deck* Material and thickness			
Spacing	24		24			Hold Stringer Plate			
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	8	5 1/2	3	Angles on ditto, No.			
Angles on Upper Edge						Poop Deck Stringer Plate, breadth & thickness	26	7	26
Spacing	24		24			Angle on ditto	3 1/2 x 3	6	3 1/2 x 3
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	10	7 1/2	3	Tie Plates	10	8	10
Angles on Upper Edge						Deck, Material and thickness <i>Pitch pine</i>	5 x 3		P.P. 5 x 3
Spacing	24		24			Bridge or Pt. Awng. Deck Stringer Plate, breadth and thickness	38	9	38
PILLARS, In 'tween Decks, Size and Spacing	2 1/2	4 8		2 1/2	4 8	Angle on ditto	4 1/2 x 4 1/2	9	4 1/2 x 4 1/2
Hold	3 5/8			3 5/8		Tie Plates			
Quarter, 'tween Dks.,	4			4		Deck, Material and thickness <i>Iron</i>	5 1/16		5 1/16
in Hold						Forecastle Deck Stringer Plate, brdth & thcknss	3 1/2 x 3	6	3 1/2 x 3
WEB FRAMES, In Fore Body, No. and Spacing						Angle on ditto			
Brdth & Thickness	1 as per plan		1 as per plan			Tie Plates <i>Steel deck</i>	5 x 2 1/2	5	5 x 2 1/2
No. of Side Stringers	21		21			Deck, Material and thickness <i>Pitch pine</i>	5 x 2 1/2		P.P. 5 x 2 1/2
WEB FRAMES, In E. & B. Space, No. & Spacing						* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.			
Brdth & Thickness	21		21			BULKHEADS.			
WEB FRAMES, In After Body, No. and Spacing						In Vessel.			
Brdth & Thickness	5	3 1/2	8	5	3 1/2	Per Rule.			
No. of Side Stringers						Thickness.			
Size of Angles or Tee Bars to Web Frames						Horizontal.			
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness						Size.			
						Spacing.			
						Vertical.			
						Size.			
						Spacing.			
						Single or Double Frames.			
						Height up.			



PLATING.										RIVETING.									
AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.				
STRAKES.					AMIDSHIP.					Single or Double.					RIVETS.				
Breadth.					Thickness.					Breadth.					Thickness.				
FLAT PLATE KEEL	36	16	12	12	36	16	12	12	36	16	12	12	36	16	12	12	36	16	12
GARBOARD OF A STRAKE	46	12	11	11	36	12	10	10	36	12	10	10	36	12	10	10	36	12	10
State actual thickness in way of Double Bottom.	46	10	8	8	36	10	8	8	36	10	8	8	36	10	8	8	36	10	8
B	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
C	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
D	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
E	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
F	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
G	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
H	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
J	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
L	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
M	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
N	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
O	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
P	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
DOUBLING OF PLATE KEEL	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
Length and thickness of Sheerstrakes	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
Length and thickness of Strake	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
POOP SIDES	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
RAISED QUARTER DECK SIDES	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
BRIDGE SIDES	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
FORECASTLE SIDES	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
LENGTHS OF PLATING	46	10	9	9	36	10	9	9	36	10	9	9	36	10	9	9	36	10	9
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.?										Main Stringer Plate									
Durham S.S. Co. Ltd. Iron plates South Durham S.S. Co. Ltd.										Butts, treble riveted for 3/4" length amidship.									
Has the Steel been tested as required by the Rules?										Yes									
FRAMES extend in one length from Centre Line to margin plate, thence to gunwale										state if ordinary or jogged									
REVERSED FRAMES on floors and frames extend from Deep butt angle framing										state if ordinary or jogged									
MASTS, SPARS, &c.										MASTS, SPARS, &c.									
Fore Mast										Fore Mast									
Main Mast										Main Mast									
Mizen Mast										Mizen Mast									
Topmasts, Yards and Remainder of Spars										Wood									
Rigging, Material and Size, Shrouds										Sabal, 3/4" wire, Fore Mast 3/4", Backstay 2 1/2" stays Fore Mast 3/4", Topmast 2 1/4"									
Sails										The									
Equipment No. 21623 Letter G.										Tonnage U.D.K. or Plating No. for Trawlers									
ANCHORS.										ANCHORS.									
Number of Certificate										Number of Certificate									
Anchors										Anchors									
Weight, Ex Stock										Weight, Ex Stock									
Test, Per Certificate										Test, Per Certificate									
Description of Anchor										Description of Anchor									
Makers										Makers									
Where and when tested and Superintendent										Where and when tested and Superintendent									
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