

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office.

Date of completion of report *25th Nov 1905* State if Report is also sent on the Machinery of the Vessel
Survey held at *West Hartlepool* Port of *WEST HARTLEPOOL*
On the *S.S. Clan Macpherson* Date, First Survey *3rd May 1905* Last Survey *25th Nov.*
Rig *Schooner - 2 masts* 18/1905
TONNAGE under Tonnage Deck *4523.39* THREE DECKED VESSEL.
Do. between Tonnage Dk. and 3rd and 4th Dk. *80.27* CLASS *100 A*
Total under Upper Dk. *4523.39* Half Breadth (moulded) *25.395*
Do. of Poop *147.32* Depth from upper part of Keel to top of Upper Deck Beams *31.002*
Do. of Bridge House *27.72* (with the normal round up of beam) *51.895*
Do. of Forecastle *147.32* Girth of Half Midship Frame (as per Rule) *108.292*
Do. of Houses on Dk. *147.32* deduct 7 feet *7.0*
Do. of excess of Hatchways *27.72* 1st Number *101.292*
Do. above Crown of Engine Room *4778.70* Length on deck from after part of stem to fore part of stern post *398.083*
Cross Tonnage *161.34* 2nd Number *403.72*
Do. of Crew Space above Crown of Engine Room *4617.36* Proportions—Breadth to Length *7.8*
Do. of Navigation Spaces *1529.18* Depth to Length—Upper Deck to top of Keel *12.84*
Register Tonnage *3041.20* Main Deck ditto *18.9*
Destined Voyage *Glasgow* Master *S. Beer*
Year of appointment *1905* (1) As Master in service of owner of present vessel:—1879
(2) As Master of this vessel:—1905
Built at *West Hartlepool*
When built *1905* Launched *31st Aug.*
By whom built *Furness, Withy & Co. Ltd*
Owners *Cayzer, Irvine & Co.*
Managers *Glasgow*
Residence *Glasgow*
Port belonging to *Glasgow*
Surveyed while Building, Afloat, or in Dry Dock

Length on Deck	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH, ACTUAL	Top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
per Rule	398	1	Moulded	50	9 1/2	Do.	Do.	27	3 1/2	2
Dimensions of Ship per Register, Length	400.0		breadth	51.0		depth	27.2			
						Moulded depth, ft.	30			
						To Upper Dk.				
										Round of Upper Dk. Beam, Actual
										13 ins.

FRAMING.				FORGINGS OR CASTINGS.			
NAME, Angle, or Length	Inches in Ship	Inches in Ship	20ths per Rule	NAME, Angle, or Length	Inches in Ship	Inches in Ship	20ths per Rule
AME, Angle, or Length	10	3 1/2	12	KEEL, Bar or Side Plates, depth and thickness	11 1/2	3 1/2	11 1/2
Do. for 1/2 at each end	10	3 1/2	11	STEM, moulding and thickness	11 1/2	7 1/2	11 1/2
Do. in way of Double Bottoms at Solid Floors	10	3 1/2	11	STERN-POST for Rudder do. do.	11 1/2	7 1/2	11 1/2
Do. at intermdt. Bkts.	10	3 1/2	11	MAIN PIECE of Rudder, diameter at head	10	10	10
Distance of Frames from moulding edge to moulding edge, all fore and aft	25	25	25	RUDDER, how constructed	7 1/2	7 1/2	7 1/2
Reversed Frame, Angles	10	10	10	Can the Rudder be unshipped afloat?	Yes		
DEEP FRAMING, depth of girder	10	10	10	KEELSONS & STRINGERS.			
DOORS, depth and thickness of Floor Plate	45	9	45	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
Do. at mid-line for 1/2 length amidships	25	25	25	Do. Rider Plate			
Do. in way of Engines and Boilers	45	11	45	Do. Bulb Plate to Intercoastal Keelson			
thickness at the ends of vessel	4	4	10	Do. Horizontal Plates on Floors			
depth at 1/2 the half breadth, as per Rule	4 1/2	4 1/2	12	Do. Angles			
height extended at the Bilges	2	2	9	SIDE KEELSON, Angles			
DOORS & BRACKETS in Cell Dble Bottoms	3 1/2	3 1/2	9	Do. Bulb or Plate above floors, for			
Distance apart	37	10	37	Do. Intercoastal Plate, for			
CENTRE GIRDER, in Double bottom, depth and thickness	4	4	10	Do. Attached to outside Plating with Angle			
Angles, Top	4 1/2	4 1/2	12	BILGE KEELSON, Angles			
Bottom	3 1/2	3 1/2	9	Do. Bulb or Plate above floors, for			
SIDE GIRDERS, number on each side & thickness	37	10	37	Do. Intercoastal Plate for			
Angles	4	4	10	Do. Attached to outside Plating with Angle			
MARGIN PLATE, depth (exclusive of flange) and thickness	60	10	60	BILGE STRINGER Angles			
Angles to Outside Plating	10	10	10	Do. Bulb Plate for			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	10	10	10	Do. Intercoastal Plate for			
Do. in Engine and Boiler space	10	10	10	Do. Attached to outside Plating with Angle			
Remainder in Holds	10	10	10	SIDE STRINGER Angles			
BEAMS, Upper Deck, Single Angle, Bulb	7 1/2	3	10	Do. Bulb or Intercoastal Plate, for whole			
Angle, Plate or Tee Bulb	8	3 1/2	11	Do. Attached to outside plating with Angle			
Angles on upper edge	25	25	25	Upper Deck Stringer Plates, br'dth & thickness	61	13	61
Average space	9	3	11	Do. Angle on ditto	5 x 5	11	5 x 5
BEAMS, Middle Deck, Single Angle, Bulb	9	3	11	Do. Tie Plates fore and aft, outside Hatchways	8.7	8.7	8.7
Angle, Plate or Tee Bulb	11	10	11	Do. Deck, * Iron or Steel, for whole	8.7	8.7	8.7
Angles on upper edge	25	25	25	Do. Wood Deck. Material & thickness	8.7	8.7	8.7
Average space	11	10	11	Middle Deck Stringer Plate, br'dth & thickness	61	11	61
BEAMS, Lower Deck, Single Angle, Bulb	3 1/2	3 1/2	8	Do. Angles on ditto, No. 2	4 x 4	9	4 x 4
Angle, Plate or Tee Bulb	50	50	50	Do. Tie Plates outside Hatchways	4 x 4	9	4 x 4
Angles on upper edge	6	3	9	Do. Diagonal Tie Plates on Bms. No. of prs.	8.7	8.7	8.7
Average space	6	3	9	Do. Deck, * Iron or Steel, for whole	8.7	8.7	8.7
BEAMS, Hold, or Orlop, Plate or Tee Bulb	5 1/2	3	8	Do. Wood Deck. Material & thickness	8.7	8.7	8.7
Angles on upper edge	6	3	9	Lower Deck Stringer Plate, br'dth & thickness	41	8	41
Average space	6	3	9	Do. Angles on ditto, No. 2	4 x 4	8	4 x 4
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	Do. Tie Plates, outside Hatchways	36	8	36
Angles on upper edge	25	25	25	Do. Deck, * Material and thickness	3 1/2	10	3 1/2
Average space	6	3	9	Hold, or Orlop Stringer Plate, br'dth & thckn's	48	7	48
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	Do. Angles on ditto, No.	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
Angles on upper edge	25	25	25	Do. Tie Plates outside Hatchways	3 1/2	7	3 1/2
Average space	6	3	9	Do. Deck. Material and thickness	3 p. pine	3 p. pine	3 p. pine
PILLARS, In 'tween Deck, size and spacing	6	3	9	Poop Deck Stringer Plate, breadth & thickness	48	7	48
Hold	6	3	9	Do. Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
Quarter 'tween Dks.	6	3	9	Do. Tie Plates	3 1/2	7	3 1/2
In Hold	6	3	9	Do. Deck. Material and thickness	3 p. pine	3 p. pine	3 p. pine
WEB-FRAMES, In Fore Body, No. and spacing	6	3	9	Forecastle Deck Stringer Plate, br'dth & th'kns	48	7	48
br'dth. & thickness	6	3	9	Do. Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
No. of Side Stringers	6	3	9	Do. Tie Plates	3 1/2	7	3 1/2
WEB-FRAMES, In E. & B. Space, No. & spacing	6	3	9	Do. Deck. Material and thickness	3 p. pine	3 p. pine	3 p. pine
br'dth. & thickness	6	3	9	Bridge Deck Stringer Plate, br'dth & thickness	48	7	48
WEB-FRAMES, In After Body, No. and spacing	6	3	9	Do. Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
br'dth. & thickness	6	3	9	Do. Tie Plates	3 1/2	7	3 1/2
No. of Side Stringers	6	3	9	Do. Deck. Material and thickness	3 p. pine	3 p. pine	3 p. pine
Size of Angles or Tee Bars to Web-Frames	6	3	9	Forecastle Deck Stringer Plate, br'dth & th'kns	48	7	48
BRACKET PLATES to Stringers between Web Frames, depth and thickness	6	3	9	Do. Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
	6	3	9	Do. Tie Plates	3 1/2	7	3 1/2
	6	3	9	Do. Deck. Material and thickness	3 p. pine	3 p. pine	3 p. pine

PLATING.										RIVETING.																																																																																																																																									
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FLAT PLATE KEEL.....		48	21	14	14	48	21			Double 6 3/4		18	3 1/2	2 1/2	5 3/8																																																																																																																																				
GARBOARD OF A STRAKE.....		65	14	13	13	65	14			Double 6 3/4		18	3 1/2	2 1/2	5 3/8			14 Whole																																																																																																																																	
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Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. <i>South Durham; Consett; Palmer; Lancashire; and Glasgow Siemens process.</i>										Upper Deck (Butts, treble riveted for <i>half</i> length amidship. Stringer Plate (Straps, single, double overlapped for <i>whole</i> length amidship. Middle Deck (Butts, treble riveted for <i>whole</i> length amidship. Stringer Plate (Straps, single, double overlapped for <i>whole</i> length amidship. Butts of Side Stringers and Tie Plates, treble or double riveted? Inner Bottom Plating, riveting of Edges <i>Double</i> . Centre Girder Butts, <i>Double</i> riveted. Keelson Butts, <i>Double</i> riveted. Frames, riveted through Plates with <i>1/2</i> in. Rivets, about <i>6 1/2</i> apart. Rivets, state whether Iron or Steel <i>Iron</i> .																																																																																																																																									
Has the Steel been tested as required by the Rules? <i>Yes</i> .																																																																																																																																																			
FRAMES extend in one length from <i>bulk margin plate to deck. (Floors flanged top and bottom)</i>																																																																																																																																																			
REVERSED FRAMES on floors and frames extend from <i>Bulk angle frames.</i>																																																																																																																																																			
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Boats <i>2 life & 3 others</i>																																																																																																																																																			
Pumps, Number <i>One</i> , which pump connected to the <i>Steam bilge suction pipes in each compartment.</i>																																																																																																																																																			
Windlass is <i>Clarke, Chapman & Co.</i>																																																																																																																																																			
Engine Room Skylights, How constructed? <i>Steel on trunk bulkheads.</i>																																																																																																																																																			
What arrangements for deadlights in bad weather? <i>Bulls eyes in steel shutters.</i>																																																																																																																																																			
Coal Bunker Openings, How constructed? <i>Steel coverings.</i> How are lids secured? <i>By hatch bars.</i> Height above deck? <i>30" & 12"</i>																																																																																																																																																			
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. <i>On each side, 8 scuppers, and 9 ports 3 1/2 x 15</i>																																																																																																																																																			
Ceiling in Holds, thickness and material <i>2 1/2 lb. pine</i>																																																																																																																																																			
Cargo Hatchways, How formed? <i>Of plates and angles.</i>																																																																																																																																																			
State size No. 1 Hatch (Forward) <i>16' 4" x 14' 0" x 30</i> No. 2 Hatch <i>31' 3" x 14' 0" x 30</i> No. 3 Hatch <i>14' 7" x 14' 0" x 30</i> No. 4 Hatch <i>24' 2" x 15' 0" x 30</i>																																																																																																																																																			
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch <i>La 1 1/2" x 14' 5" web plate, 1 1/2" x 24' 4" three web plates, 1 1/2" x 15' 0" x 30</i>																																																																																																																																																			
Beam, and 3 fore & afters in each.																																																																																																																																																			
Bulwarks, height above deck and description <i>3-8" Steel plating.</i>																																																																																																																																																			
The above is a correct description.																																																																																																																																																			
Builder's Signature (there only) <i>For FURNESS, WITBY & CO., LIMITED.</i>																																																																																																																																																			
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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) *Mar.; 11th & 15th April; 17th May; 9th & 29th June; and 11th Sept. 1905. M. 5th June 1905 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 faying surfaces? *Yes.*

Do any rivets break into or through the seams or butts of plating? *A 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. *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 throughout is good.*

This vessel is built in accordance with photo. of approved amidship section forwarded to London on 25th Nov. 1905, the accompanying tracings (10 in 1/2), the Secretary's letters referred to above, and in general conformity with the Rules for the Class contemplated.

As desired by the Owners, the close ceiling has been dispensed with, except under the hatchways and over the limbers, in Secretary's letter dated 11th Sept. 1905.

The bottom is coated with enamel cement (Furness, Withy & Co.) and a letter from the Owners approving of the same is forwarded 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 *36* ft., R.Q.D. or Break *—* ft., Bridge Dk. *129* ft., F'castle *40* 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) *2 Dks. (Steel), 2 tiers of Beams, & deep framing.*

Official No. *—*; Signal Letters *—*

How are the surfaces preserved from oxidation? Inside *By enamel cement & paint.* Outside *By 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,	106 1/4	235	Fore peak tank,	—	—
Double bottom, under Engines and Boilers,	52	185	After peak tank,	—	19
Double bottom, if under Engines only,	—	—	Midship deep tank,	48	1150
Double bottom, if under Boilers only,	—	—	Other tanks, if fitted,	—	—
Double bottom, forward,	183 1/2	531	(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. *Yes.*

Order for Special Survey No. *1981*

Date *17th May 05*

No. *287* in builder's yard.

DATES OF SURVEYS held while building

1905. May 3, 5, 9, 12, 16, 17, 19, 22, 24, 26, 29, 31. June 2, 5, 8, 14, 16, 19, 21, 23, 26, 28, 30. July 4, 7, 11, 13, 19, 25, 26. 27, 28, 31. August 2, 4, 15, 17, 21, 23, 25, 28, 29, 30. Sept 1, 5, 7, 19, 25, 27. Oct. 5, 10, 15, 21, 26, 31. Nov. 3, 7. 8, 10, 16, 17, 21, 22, 24, 25.

Total No. of Visits *65*

The amount of Entry Fee.....£ *25. 11. 1905*

Special Survey Fee.....£ *140. 8. 6*

Received by me, *28. 11. 1905*

Travelling Expenses, if any £ *—*

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

I am of opinion this Vessel should be Classed *# 100A1*

With, or without Freeboard, as condition of Class

Committee's Minute *FRI. 1 DEC 1905*

Character assigned *100A1*

Lloyds & Co. P.

+ Lmb 11.05

F.D. Ellis high

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