

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

# IRON OR STEEL STEAMER.

MON 22 NOV 1897  
Received at London Office.

State if Report is also sent on the Machinery of the Vessel No. will follow in a few days.

Date of completion of Report 20<sup>th</sup> Novr. 1897

Port of Leith

No. 8565 Survey held at Grangemouth

Date, First Survey 17<sup>th</sup> June '97

Last Survey 15<sup>th</sup> Novr. 1897.

On the Steel Screw Steamer "Humber"

Rig 3 m. schooner

Master H. C. Dalgarno

TONNAGE under  
Tonnage Deck... 194.70

ONE OR TWO DECKED VESSEL.

Do. of Poop 37.54

CLASS 100 A 1

Do. of Raised Qr. Dk. or Break... 7.81

FEET.

Year of appointment (1) As master in service of owner of present vessel: 18. 88  
(2) As master of this vessel: 18. 97

Do. of Bridge House 11.63

Half Breadth (moulded) 11.12

Do. of Houses on Deck 6.78

Depth from upper part of Keel to top of Main Deck Bms. 10.37

Do. of excess of Hatchways 14.15

Girth of Half Midship Frame (as per Rule) 19.16

Do. above Crown of Engine Room 14.97

Gross Tonnage 287.38

1st Number 40.65

Less Crew Space 19.83

Length 129.

Less above Crown of Engine Room 14.97

TONNAGE FOR FEES 252.58

2nd Number 52.43.85

Less Engine Room 139.76

Proportions—Breadths to Length 5.79

Less Navigation Spaces 9.66

Depths to Length—Main Deck to top of Keel 12.43

Register Tonnage 118.13

Destined Voyage Middlesbro.

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

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH—	Feet.	Inches.	Power of	Horse.	No. of Decks with Flat laid	No. of Tiers of Beams
as per Rule	129	4	Moulded	22	3	Top of Floors to Main Deck Beams	9	4 1/2	Engines		One	One
Dimensions of Ship per Register, Length,	130		breadth,	22.3		depth,	9.3		Moulded Depth, ft.	9 ins.	11	Round of Beam 5 1/2 inches.

FRAMING.				FORGINGS AND CASTINGS.			
Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Appro.	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Appro.
FRAME, Angles, L, E or L Bars, for 1/2 length amidships				KEEL, Bar or Side Plates depth and thickness			
3	2 1/2	5	3	STEM, moulding and thickness			
3	2 1/2	5	3	STERN-POST for Rudder do. do.			
Do. for 1/2 at each end				" for Propeller			
Do. in way of Double Bottoms at Solid Floors				MAIN PIECE of Rudder, diameter at head...			
" at intermdt. Bkts.				do. at heel			
Distance of Frames from moulding edge to moulding edge, all fore and aft				RUDDER, how constructed			
2 1/2	2 1/2	5	2 1/2	Can the Rudder be unshipped afloat?			
EVERSED FRAME, Angles				Single plate 10/20			
DEEP FRAMING, depth of girder				KEELSONS AND STRINGERS.			
12	5		12	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships				" Rider Plate			
6 x 7			6 x 7	" Bulb Plate to Intercoastal Keelson			
" in way of Engines and Boilers				" Horizontal Plates on Floors			
5			5	" Angles			
" thickness at the ends of vessel				SIDE KEELSON, Angles			
7			6	" Bulb or Plate above floors for			
" depth at 1/2 the half breadth, as per Rule				" Intercoastal Plate for 1/2 length			
2 1/4			2 1/4	" Attached to outside plating with Angle			
" height extended at the Bilges				BILGE KEELSON, Angles			
FLOORS & BRACKETS, in Cell Dble Bottoms				" Bulb or Plate above floors for 3/5 len.			
" Distance apart				" Intercoastal Plate for Angles at ends length			
CENTRE GIRDER, in Double Bottom, depth and thickness				" Attached to outside plating with Angle			
" Angles, Top				BILGE STRINGER Angles in way of main Dk			
" Bottom				" Bulb Plate for Quarter Dk length			
SIDE GIRDERS, number and thickness				" Intercoastal Plate for 1/2 angles length			
" Angles				" Attached to outside plating with Angle			
MARGIN PLATE, depth (exclusive of flange) and thickness				SIDE STRINGER Angles			
" Angles				" Bulb or Intercoastal Plate for			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake				" Attached to outside plating with Angle			
" thickness in Engine and Boiler space				Main and Raised Quarter Deck Stringer			
" Remainder in Holds				Plate, breadth and thickness			
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto			
4	3	5	4	" Tie Plates fore & aft, outside Hatchways			
" Angles on Upper Edge				" Diagonal Tie Plates on Bms, No. of Pairs			
" Average space				" Main Dk* Iron or Steel for whole lng.			
21			21	" R. Q. Dk* Iron or Steel for whole lng.			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Wood Deck, Material & thickness			
" Angles on Upper Edge				Lower Deck Stringer Plate, breadth and thickness			
" Average space				" Angles on ditto, No.			
21			21	" Tie Plates, outside Hatchways			
BEAMS, Hold, Plate or Tee Bulb				" Deck* Material and thickness			
" Angles on Upper Edge				Hold Stringer Plate			
" Average space				" Angles on ditto, No.			
21			21	Poop Deck Stringer Plate, breadth & thickness			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto			
" Angles on Upper Edge				" Tie Plates			
" Average space				" Deck, Material and thickness			
21			21	Bridge Deck Stringer Plate, brdth & thickness			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto			
" Angles on Upper Edge				" Tie Plates			
" Average space				" Deck, Material and thickness			
21			21	Forecastle Deck Stringer Plate, brdth & thcknss			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto			
" Angles on Upper Edge				" Tie Plates			
" Average space				" Deck, Material and thickness			
21			21	* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.			
PILLARS, In 'tween Decks, Size and Spacing				BULKHEADS.			
2 1/4	4.2		2 1/4	W. T. BULKHEADS			
" Hold				PARTITION			
2 1/2	4.2		2 1/2	LONGITUDINAL			
" Quarter, 'tween Dks				STIFFENERS.			
" in Hold				Single or Double Frames.			
WEB FRAMES, In Fore Body, No. and Spacing				Horizontal.			
" Brdth. & Thickness				Vertical.			
15	6		15	Spacing			
" No. of Side Stringers				Inches.			
WEB FRAMES, In E. & B. Space, No. & Spacing				Inches.			
" Brdth. & Thickness				Inches.			
" No. of Side Stringers				Inches.			
WEB FRAMES, In After Body, No. and Spacing				Inches.			
" Brdth. & Thickness				Inches.			
" No. of Side Stringers				Inches.			
" Size of Angles or Tee Bars to Web Frames				Inches.			
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness				Inches.			
5	4		5	Inches.			



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAPS.		IF LAPPED.					
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.						Breadth.	Thickness.		Breadth.	Thickness.			
FLAT PLATE KEEL	40	9	8	8	40	9	Double	4 1/2	3/4	3	Double	1 1/2	2 1/2	11	7 1/2	whole L			
GARBOARD OF A Strake	46	8	8	8	46	8	Do	4 1/2	3/4	3	Do	1 1/2	2 1/2	11	7 1/2	whole L			
State actual thickness in way of Double Bottom.	C	54	7	5	5	54	7	Do	4 1/2	3/4	3	Do	1 1/2	2 1/2	11	7 1/2	whole L		
B	46	8	6	6	46	8	Do	4 1/2	3/4	3	Do	1 1/2	2 1/2	11	7 1/2	whole L			
D	54	6	5	5	54	6	Do	4 1/2	3/4	3	Do	1 1/2	2 1/2	11	7 1/2	whole L			
Sheerstrake	E	42	10	8	8	42	10	Do	4 1/2	3/4	3	Do	1 1/2	2 1/2	11	7 1/2	whole L		
F																			
G																			
H																			
J																			
K																			
L																			
M																			
N																			
O																			
P																			
DOUBLING of Flat Plate Keel																			
Length and thickness of Bilge	36	6				6													
of Sheerstrakes																			
of Strake below																			
POOP SIDES																			
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF PLATING	9 frame 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.: <i>Siemens Bremen Process, Hall'side, Consett, Lankashire.</i>																			
Main Stringer Plate Butts, double riveted for whole length amidship. Straps, single, double or overlapped for whole length amidship. Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? Treble, double. Inner Bottom Plating, riveting of Edges Butts. Centre Girder Butts, double riveted. Keelson Butts, treble riveted. Frames, riveted through Plates with 3/4 in. Rivets, about 5 1/2 apart. Rivets, state whether of Iron or Steel <i>Iron</i> .																			
FRAMES extend in one length from <i>middle line</i> to <i>gunwale</i> . REVERSED FRAMES on floors and frames extend from <i>middle line</i> to <i>upper turn of bilges in way of main deck, to side stringer and gr. dk. alternately in way of same; double in Engine &amp; Boiler spaces.</i>																			
MASTS, SPARS, &c.																			
Material. Total length. DIAMETER AND THICKNESS. No. of Plates in round. ANCHORS. Riveting. At Partners. Head. Hounds. Head. Number. Size. Seams. Butts.																			
LOWER MASTS: Fore Main Mizzen. 3 small pole masts of wood. Bowsprit. Topmasts, Yards and Remainder of Spars. Wood. Rigging, Material and Size, Shrouds. Steel Wire 2. Stays 2 1/2 x 2 3/4. Sails. One Suit of Sails and the following spare sails.																			
EQUIPMENT No. 5741.81 LETTER d. TONNAGE FOR TRAWLERS U.K. ANCHORS.																			
Number of Certificate. Anchors. WEIGHT, EX STOCK. WEIGHT OF STOCK. TEST, PER CERTIFICATE. WEIGHT REQ. BY RULE. Description of Anchor. Makers. Where and when tested and Superintendent.																			
32 4 15 1st Bower. 7 3 0. 4 3 20. 9 18 0 14. 7 1 0. Hartshorne & Co. Ltd. 26 Oct. 97. H. J. Halford.																			
32 4 14 2nd. 6 3 0. 4 0 1. 9 0 0 0. 7 0 0. Do. Do.																			
3rd. 14 2 0. 14 1 0. Do. Do.																			
Stream. 1 3 14 (with stock). 1 2 0. Do. Do.																			
Kedg. 1 0 0. 0 3 0. Do. Do.																			
2nd Kedg. Do. Do.																			
Anchor heads tested at Lipton, as per Certificate dated 11th & 12th Oct. 97, signed C. E. Jennings. CHAIN CABLES. HAWSERS AND WARPS.																			
Number of Certificate. Fathoms. Size. TEST per Certificate. Tons. Supplied. Per Rule. Fathoms and Size Per Rule. Description. Makers of Cables. When and where tested, and Superintendent. Material. Fathoms. Size. Breaking Test of Steel Wire Towline. Fathoms and Size Per Rule.																			
13 2 25 165 7/8 20 1/2 x 13 1/2 64 1.15 64 1.1. 165 7/8. Steel Link. G. Hartshorne & Co. Ltd. 30th Oct. 97. H. J. Halford.																			
Stream (4000 yds) 45 2 1/2 10 1/2 45 2 1/2 Steel Wire. H. Barton & Co. Ltd. 16th Oct. 97.																			
Boats 2: Life boat & Dingy. Pumps, Number 2. Diameter of Barrel and Tail Pipe 5 x 2 1/2. Windlass is <i>Wheeler's Cor. Iron Patent</i> . Capstan. Engine Room Skylights—How constructed? <i>Iron with glass bullseyes in cover, riveted to iron casing.</i> What arrangements for deadlights in bad weather? <i>7ft above quarter deck.</i> Coal Bunker Openings—How constructed? <i>Iron Comings</i> . How are lids secured? <i>Hatches battened down.</i> Height above deck? <i>7ft.</i> Number of Scuppers, and number and dimensions of Freeing Ports, &c. <i>On each side 2 scuppers &amp; 2 freeing ports 1'9" x 2'0"</i> Ceiling in Holds, thickness and material <i>2 1/2" pine</i> . Ceiling 'tween Decks, thickness and material <i>2" pine</i> . Cargo Hatchways—How formed? <i>Steel Comings</i> . Hatches—If strong and efficient? <i>Yes</i> . State size No. 1 Hatch (Forward) <i>22ft 9" x 12ft.</i> No. 2 Hatch <i>14ft x 12ft.</i> No. 3 Hatch. No. 4 Hatch. Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch. <i>No. 1 has 2 deep Webs &amp; 3 wood fore &amp; afters. No. 2 has 1 bull angle beam &amp; 3 wood fore &amp; afters.</i> No. of Breasthooks 3. No. of Crutches 2. Bulwarks, height above deck and description. <i>3'6" of Main Rail, material and size Bull angle. 6 x 3 x 3/4.</i> The above is a correct description. Builder's Signature <i>H. J. Halford</i> . Surveyor's Signature <i>H. Paulsen</i> . 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).

3rd & 12th June & 17th Sept. '97. H.

Workmanship. Are the butts of plating planed or otherwise fitted? *Overlapped, except keelplate.*

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 facing 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? *Yes.*

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

*Workmanship & Material Good*

*This vessel is built in accordance with the approved plan of Midship Section forwarded to the Secretary on the 11th Nov. '97 and in conformity with the Rules.*

*The Decks were flooded and are watertight.*

*Pumps tested & found in order.*

*There are no sluice valves or doors in bulkheads.*

*Approved profile plan & 2 forging Reports are hereto attached.*

The Surveyor should state the Number of Report and Name of any Sister Vessel. *Not a sister ship to any other.*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *4ft.* R.Q.D. or Break *72 ft.* Bridge Dk. *7 ft.* F'castle *19 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

*R.Q.D. & B.D. are joined.*

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 Bk. (Steel)*

Official No. ; Signal Letters

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. *✓*

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

State whether the above have been tested as required by the Rules. *Yes & found good.*

Order for Special Survey No. <i>692</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>Built under special Survey &amp; surveyed.</i>
Date <i>7th June 1897</i>	2nd. On the plating during the process of riveting	<i>1897: June 17. 21. 25, July 5. 12. 26. 30.</i>
Order for Ordinary Survey No.	3rd. When the beams were in and fastened and before the decks were laid	<i>Aug. 5. 11. 17. 27, Sept. 8. 14. 17. 20. 23. 29;</i>
Date	4th. When the ship was complete, and before the plating was finally coated or cemented	<i>Oct. 5. 11. 15. 20. 25. 29;</i>
No. <i>190</i> in builder's yard	5th. After the ship was launched and equipped	<i>Nov. 4. 10. 15.</i>
		Total No. of Visits <i>26</i>

The amount of Entry Fee	Fees applied for,	
Special	<i>20th Nov. 1897</i>	
Certificate	Received by me,	
Travelling Expenses, if any	<i>25/11/1897</i>	
I am of opinion this Vessel should be Classed	<i>10.0 A1 Steel Well Bk.</i>	
With, or without Freeboard, as condition of Class		

Committee's Minute *TUES. 30 NOV. 1897*

Character assigned *100A1 Steel*  
*at 11.97*  
*1 Bk (Steel)*  
*Wall dk.*