

3 Decks.

# IRON OR STEEL STEAMER.

No. 8047

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

Date of completion of report *17<sup>th</sup> Feb. 1896* Port of *Leith* Received at London Office  
 Survey held at *Grangemouth & Leith* Date, First Survey *5<sup>th</sup> June, 1895* Last Survey *17<sup>th</sup> February 1896.*  
 On the *Steel Screw Steamer "Nanshan"* Rig *Schooner 2 masts.*

TONNAGE under *2006.95*  
 Tonnage Deck...  
 Do. between Tonnage Dk. and 3rd and 4th Dk. *✓*  
 Total under Upper Dk. *✓*  
 Do. of Poop *70.87*  
 Do. of Bridge House *✓*  
 Do. of Forecastle *48.05*  
 Do. of Houses on Dk. *64.21*  
 Do. of excess of Hatchways *9.89*  
 Do. above Crown of Engine Room *✓*  
 Gross Tonnage *2199.97*  
 Less Crew Space *121.67*  
 Less above Crown of Engine Room *✓*  
 TONNAGE FOR FEES. *2078.30*  
 Less Engine Room *703.99*  
 Less Navigation Spaces *30.13* *734.12*  
 Register Tonnage *1344.18*  
 as cut on Beam *✓*

THREE DECKED VESSEL.  
 CLASS *100 A1*

Muster *J. Jenkins*  
 Year of appointment *(1) As Master in service of owner of present vessel: 1896 (2) As Master of this vessel: 1891*  
 Built at *Grangemouth*  
 When built *1895* & *96* Launched *16<sup>th</sup> Novbr. 1895.*  
 By whom built *Smith, Skypd. Comp.*  
 Owners *Messrs. J. H. Richardson*  
 Managers *(Where necessary to be entered in Reg. Book.)*  
 Residence *10, Austin Friars, London*  
 Port belonging to *London*

LENGTH on Deck *283* Feet. *4* Inches. BREADTH *39* Feet. *4* Inches. DEPTH top of Floor to Upper Deck Beams *22* Feet. *9 1/2* Inches. Power of Horse. *190* No. of Decks with flat laid *✓*  
 as per Rule *283* Moulded *39* Do. do. Main Deck Beams *15* *9 1/2* Engines *190* No. of Tiers of Beams *2* *✓*  
 Dimensions of Ship per Register, Length *285* breadth *39.15* depth *22.85* Moulded depth, ft. *24* ins. *✓* To Upper Dk. Beam, Upper Dk. *9 1/2* ins.

FRAMING.						FORGINGS or CASTINGS.					
	Inches in Ship	Inches in Ship	14ths or 20ths in Ship	Inches per Rule Or as Approved	14ths or 20ths per Rule		Inches in Ship	Inches in Ship	14ths or 20ths in Ship	Inches per Rule Or as Approved	14ths or 20ths per Rule
NAME, Angles, or <i>7</i> or <i>8</i> Bars for $\frac{1}{2}$ length amidships	5	3	8	✓	3	8	KEEL, Bar or Side Plates, depth and thickness	10 x 2 1/2	✓	10 x 2 1/2	✓
Do. for $\frac{1}{2}$ at each end	5	3	7	✓	3	7	STEM, moulding and thickness	10 x 2 1/2	✓	10 x 2 1/2	✓
Do. in way of Double Bottoms at Solid Floors	3	3	8	✓	3	8	STERN-POST for Rudder do. do.	10 x 5 1/2	✓	10 x 5 1/2	✓
" " at intermdt. Bkts.							" for Propeller	10 x 5 1/2	✓	10 x 5 1/2	✓
Distance of Frames from moulding edge to moulding edge, all fore and aft		24	✓		24		MAIN PIECE of Rudder, diameter at head	7 3/4	✓	7 3/4	✓
VERSED FRAME, Angles	3 1/2	3	8	✓	3 1/2	3	" do. at heel	6 1/2 x 3 3/4	✓	3 3/4	✓
DEEP FRAMING, depth of girder		24	✓		24		RUDDER, how constructed	Ordinary Hay	✓		
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships		10 x 11	✓		10 x 11		Can the Rudder be unshipped afloat?	Yes	✓		
" in way of Engines and Boilers		7	✓		7		KEELSONS & STRINGERS.				
" thickness at the ends of vessel		15	✓		12		CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	2.5	13	✓	2.5 13
" height extended at the Bilges		48	✓		48		" Rider Plate	13	13	✓	13 13
FLOORS & BRACKETS in Cell Dble Bottoms		38	7	✓	38	7	" Bulb Plate to Intercoastal Keelson				
" Distance apart		24	✓		24		" Horizontal Plates on Floors	6	4	9	6 4 9
CENTRE GIRDER, in Double bottom, depth and thickness		38	10	✓	38	10	" Angles	6	4	9	6 4 9
" Angles, Top	4	4	9	✓	4	9	" Bulb or Plate above floors, for $\frac{1}{2}$ lng.	8	8	✓	8 8
" Bottom							" Intercoastal Plate, for whole length	9	✓		9
SIDE GIRDERS, number and thickness	3 1/2	3 1/2	7	✓	3 1/2	7	" Attached to outside Plating with Angle	3 1/2	3 1/2	9	3 1/2 3 1/2 9
" Angles	3 1/2	3 1/2	7	✓	3 1/2	7	BILGE KEELSON, Angles	6	4	9	6 4 9
MARGIN PLATE, depth (exclusive of flange) and thickness		24	8	✓	24	8	" Bulb or Plate above floors, for $\frac{3}{5}$ lng.	8	8	✓	8 8
" Angles	3 1/2	3 1/2	8	✓	3 1/2	8	" Intercoastal Plate for $\frac{1}{2}$ length	9	✓		9
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake		36	9	✓	36	9	" Attached to outside Plating with Angle	3 1/2	3 1/2	9	3 1/2 3 1/2 9
" in Engine and Boiler space							BILGE STRINGER Angles				
" Remainder in Holds			7	✓		7	" Bulb Plate for length				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		8	8	✓	8	8	" Intercoastal Plate for length				
" Angles on upper edge	3	3	6	✓	3	6	" Attached to outside Plating with Angle				
" Average space		48	✓		48		SIDE STRINGER Angles				
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	✓	7 1/2	3	" Bulb or Intercoastal Plate, for lng.				
" Angles on upper edge		24	✓		24		" Attached to outside plating with Angle				
" Average space							Upper Deck Stringer Plates, br'dth & thickness	5.8	10	✓	5.8 10
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Angle on ditto	4 1/2 x 4 1/2	10	✓	4 1/2 x 4 1/2 10
" Angles on upper edge							" Tie Plates fore and aft, outside Hatchways	3.0 x 1.5	10	✓	3.0 x 1.5 10
" Average space							" Deck * Iron or Steel, for $\frac{1}{2}$ x $\frac{1}{2}$ lng.	5	✓		5
BEAMS, Hold, or Orlop, Plate or Tee Bulb							" Wood Deck. Material & thickness	4	✓		4
" Angles on upper edge							Middle Deck Stringer Plate, br'dth & thickness	4.1	10	✓	4.1 10
" Average space							" Angles on ditto, No. 2	4 x 4 x	9	✓	4 x 4 x 9
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	✓	7	3	" Tie Plates outside Hatchways				
" Angles on upper edge		48	✓		48		" Diagonal Tie Plates on Bms., No. of prs.				
" Average space							" Deck * Iron or Steel, for whole lng.	6	✓		6
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	✓	7	3	" Wood Deck. Material & thickness				
" Angles on upper edge		48	✓		48		Lower Deck Stringer Plate, br'dth & thickness				
" Average space							" Angles on ditto, No.				
PILLARS, In 'tween Deck, size and spacing	2 3/4	48	✓	2 3/4	48		" Tie Plates, outside Hatchways				
" Hold	3 7/8	48	✓	3 7/8	48		" Deck * Material and thickness				
" Quarter 'tween Dks.							Hold, or Orlop Stringer Plate, br'dth & thckn's				
" in Hold							" Angles on ditto, No.				
WEB-FRAMES, In Fore Body, No. and spacing	7	12 ft.	✓	7	12 ft.		" Tie Plates outside Hatchways				
" br'dth. & thickness		15	8	✓	15	8	" Deck. Material and thickness				
" No. of Side Stringers		15	8	✓	15	8	Poop Deck Stringer Plate, breadth & thickness	3.0	8	✓	3.0 8
WEB-FRAMES, In E. & B. Space, No. and spacing	4	8 to 12 ft.	✓	4	8 to 12 ft.		" Angle on ditto	3 x 3 x	7	✓	3 x 3 x 7
" br'dth. & thickness		15	8	✓	15	8	" Tie Plates	11	8	✓	11 8
" No. of Side Stringers		15	8	✓	15	8	" Deck. Material and thickness	3	✓		3
" Size of Angles or Tee Bars to Web-Frames	6	10	10	✓	6	10	Bridge Deck Stringer Plate, br'dth & thickness	3.0	8	✓	3.0 8
BRACKET PLATES to Stringers between Web Frames, depth and thickness	36	18	9	✓	36	18	" Angle on ditto	3 x 3 x	7	✓	3 x 3 x 7
							" Tie Plates	11	7	✓	11 7
							" Deck. Material and thickness	3	✓		3



PLATING.										RIVETING.																																																																																																																				
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.																																																																																																																			
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.																																																																																																														
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.						Inches.	Spacing or to cr.	Inches.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.																																																																																																											
Flat Plate Keel (If Bar Keel, state Riveting)	36	12	11	11	36	12	Double	5 1/4	7/8	3 3/8	Double	7/8	3 3/8	16 3/4	15	See below from Surveyor 21.2.96																																																																																																														
GARBOARD OF A Strake	46	11	9	9	46	11	Do	5 1/4	7/8	3 3/8	Double	7/8	3 3/8	9	Do	Whole L																																																																																																														
State actual thickness in way of Double Bottom.	54	11	9	9	54	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
B "	46	11	9	9	46	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
C "	54	11	9	9	54	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
D "	46	11	9	9	46	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
E "	54	11	9	9	54	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
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G "	54	11	9	9	54	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
H "	46	11	9	9	46	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
J "	51	11	9	9	51	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
K "	43	11	9	9	43	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
L "	53	11	9	9	53	11	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	9	Do	Do																																																																																																														
M Sheer	42	15	10	10	42	15	Do	5 1/4	7/8	3 3/8	Do	7/8	3 3/8	16 3/4	18	9	70 ft.																																																																																																													
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DOUBLING OF Flat Plate Keel																																																																																																																														
Length and thickness of Sheerstrakes.	1/2 length	11																																																																																																																												
POOP SIDES	7				7		Single	2 1/2	3/4	3	Double	3/4	2 5/8	9 3/4	7																																																																																																															
BRIDGE SIDES	7				7		Do	2 1/2	3/4	3	Do	3/4	2 5/8	9 3/4	7																																																																																																															
FORECASTLE SIDES	7				7		Do	2 1/2	3/4	3	Do	3/4	2 5/8	9 3/4	7																																																																																																															
Manufacturer's name or trade mark of the <del>Iron</del> Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. <i>Siemens Martin process</i>										Upper Deck (Butts, treble riveted for <i>1/2</i> length amidship. Stringer Plate (Straps, single, double or overlapped for <i>whole</i> length amidship. Middle Deck (Butts, treble riveted for <i>1/2</i> length amidship. Stringer Plate (Straps, single, double or overlapped for <i>whole</i> length amidship. Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? <i>Double</i> for <i>1/2</i> length amidship. Inner Bottom Plating, riveting of Edges <i>Double</i> single Butts double for <i>1/2</i> length amidship. Centre Girder Butts, treble riveted Keelson Butts, treble riveted. Frames, riveted through Plates with <i>7/8</i> in. Rivets, about <i>6 1/4</i> apart. Rivets, state whether Iron or Steel <i>Iron</i>																																																																																																																				
FRAMES extend in one length from Keel or Margin Plate to Gunwale. REVERSED FRAMES on floors and frames extend from middle line to top of middle deck stringer angle & upper deck stringer, also alternately to upper fore-castle Bks., all to upper dk. shaft after peak bulkhead.																																																																																																																														
MASTS, SPARS, &c.																																																																																																																														
<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Material.</th> <th rowspan="2">Total Length.</th> <th colspan="4">DIAMETER AND THICKNESS.</th> <th rowspan="2">No. of Plates in round.</th> <th colspan="2">ANGLES.</th> <th colspan="2">RIVETING.</th> </tr> <tr> <th>At Partners.</th> <th>Heel.</th> <th>Hounds.</th> <th>Head.</th> <th>Number.</th> <th>Size.</th> <th>Seams.</th> <th>Butts.</th> </tr> </thead> <tbody> <tr> <td rowspan="3">LOWER MASTS.</td> <td>Fore</td> <td>Steel</td> <td>70' 0"</td> <td>18 1/2 x 5/16</td> <td>14 1/2 x 5/16</td> <td>15 x 5/16</td> <td>13 3/4 x 5/16</td> <td>2</td> <td></td> <td></td> <td>Single</td> <td>Treble &amp; Double</td> </tr> <tr> <td>Main</td> <td>Do</td> <td>64' 7"</td> <td>18 1/2 x 5/16</td> <td>15 1/2 x 5/16</td> <td>15 x 5/16</td> <td>13 3/4 x 5/16</td> <td>2</td> <td></td> <td></td> <td>Do</td> <td>Do</td> </tr> <tr> <td>Mizen</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="13">Bowsprit <i>Steel</i> Topmasts, <i>Leads</i> and Remainder of Spars <i>Wood</i> Rigging, Material and Size, <i>Shrouds</i> <i>Steel Wire 3"</i> Stays <i>3" x 3/4</i> Sails, <i>Iron</i> Suits of <i>Iron</i> Sails, and the following spare sails</td> </tr> </tbody> </table>																					Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.		At Partners.	Heel.	Hounds.	Head.	Number.	Size.	Seams.	Butts.	LOWER MASTS.	Fore	Steel	70' 0"	18 1/2 x 5/16	14 1/2 x 5/16	15 x 5/16	13 3/4 x 5/16	2			Single	Treble & Double	Main	Do	64' 7"	18 1/2 x 5/16	15 1/2 x 5/16	15 x 5/16	13 3/4 x 5/16	2			Do	Do	Mizen												Bowsprit <i>Steel</i> Topmasts, <i>Leads</i> and Remainder of Spars <i>Wood</i> Rigging, Material and Size, <i>Shrouds</i> <i>Steel Wire 3"</i> Stays <i>3" x 3/4</i> Sails, <i>Iron</i> Suits of <i>Iron</i> Sails, and the following spare sails																																																	
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28716	Stream	10	2	0	2	2	14	12	8	3	0	Common	Do																																																																																																																	
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Boats 4 Life Boats, 1 Cutter, 1 Gig Pumps, Number 6 Windlass is Emerson Walker & Thompsons Iron Patent Engine Room Skylights, How constructed? Leak with bulleeyes in cover, bolted to iron casing. What arrangements for deadlights in bad weather? Tarpaulin Coal Bunker Openings, How constructed? Iron Comings How are lids secured? Batten down Height above deck? 12" Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Each side 6 scuppers & 5 ports 39" x 24" Ceiling in Holds, thickness and material 2 1/2" Pine Ceiling 'tween Decks, thickness and material 2 1/2" Pine Hatches, If strong and efficient? Yes Cargo Hatchways, How formed? Steel Comings State size No. 1 Hatch (Forward) 16' x 14' No. 2 Hatch 20' x 14' No. 3 Hatch 20' x 14' No. 4 Hatch 16' x 14' Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch No. 1 & 4 have 1 bull shifting beam & 3 wood fore & afters. No. 2 & 3 have 1 deep web shifting beam & 3 wood fore & afters No. of Breasthooks 6 No. of Crutches 4 Bulwarks, height above deck and description 4 ft. 3 in Main Rail, material and size Bull angle 6 x 3 x 7/2 The above is a correct description of the vessel. Builder's Signature (three only) <i>H. Paulsen</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 this case)

1895: 6th June; 29th July; 2nd Aug; 4th Sept. *M*

Workmanship. Are the butts of plating planed or otherwise fitted? *Sheer & Carl's strakes planed; remainder overlapped.*

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 except a few*

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 7th Feb. '96, and in conformity with the Rules.*

*There are no sluice valves; pumps & watertight doors are in good working order; weatherdecks & gutterwaterways flooded & found tight.*

*Approved plans of profile; deep midship tank; cargo ports; pumping arrangement; masts; skylating at E & B. space of main & middle Bks. & 1 forging report are hereto attached.*

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29 ft., R.Q.D. or Break ft., Bridge Dk. 60 ft., F'castle 33 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. *Poop & B.D. are not 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) *2 Bks. (1 steel) & 1 web frames. 3 Bks. Rule.*

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 *Yes it is.*

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <i>Cellular</i>	88	143	Fore peak tank,	20	121
Double bottom, forward,			After peak tank,	16	30
Double bottom, under Engines and Boilers,			Midship deep tank,	16	294
Double bottom, if under Engines only,			Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 647 Date 7th June 1895

Order for Ordinary Survey No. Date

No. 185 in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid

4th. When the ship was complete, and before the plating was finally coated or cemented

5th. After the ship was launched and equipped

1895: June 5. 8. 13. 21. 28; July 4. 12. 19. 26; Aug. 2. 6. 12. 21. 28. 30. 31. 1896: Jan. 2. 16. 23. 30. Feb. 6. 10. 13. 14. 17. Total No. of Visits 38

The amount of Entry Fee.....£ 5: - : - Fees applied for, 17th Feb. 1896

Special Survey Fee ....£ 76: 19: - Received by me, 19th Feb. 1896

Travelling Expenses, if any £ 11: 4: 6

I am of opinion this Vessel should be Classed *100 A 1 "Steel" 3 Bk.*

With, or without Freeboard, as condition of Class

Committee's Minute

Character assigned *100 A 1 Steel*

*a + c p + 2 m c 2, 96*

*2 Bks (1 steel) & web frames*

Hull Certificate. Written.

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