

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

No. 44584

Port of *Newcastle*
Survey held at *Newcastle*
On the *Steel S. S. Grigua*Date of completion of Report *19 Decr 1902*
Date, First Survey *10 April*Received at London Office
Last Survey *11 Decr*

MUN. 22 DEC 1902

18/1902

Rig *Schooner*Master *W. Anderson*

Year of Appointment

(1) As Master in service of
owner of present vessel:—1889
(2) As Master of this
vessel:—18/1902Built at *Newcastle*When built *1902* Launched *15 October*By whom built *W. G. Munro & Co. Ltd*Owners *Bucknall Steamship Co. Ltd*Managers *Bucknall Bros*

(Where necessary to be entered in Reg. Book.)

Residence *London*Port belonging to *London*

If Surveyed while Building, Afloat, or in Dry Dock

TONNAGE under
Tonnage Deck...
No. between Tonnage Dk.
and 3rd, 4th, Spar or
Awning Dk.Total under Upper Dk. *3054.20*
of Poop *116.46*

Do. of Bridge House

Forecasts *45.22*Houses on Deck *113.67*excess of Hatchways *13.18*Crown of
the RoomTonnage *3344.43*reco Space *121.95*Crown of
the RoomGE FOR FEES... *3225.00*Engine Room *1090.31*Navigation Spaces *39.12*

ter Tonnage

on Beam... *2113.57*SPAR, AWNING OR PART AWNING-DECKED VESSEL,
or a Vessel having a continuous Shade Deck.CLASS *100 A.1*

FEET.

Half Breadth (moulded) *22.50*Depth from upper part of keel to top of Main Deck Beams *20.61*Girth of Half Midship Frame (as per Rule) *39.35*1st Number *82.46*Length *328.21*2nd Number *24064*Proportions—Breadths to Length *7.29*Depths to Length—Main Deck to top of Keel *15.92*Destined Voyage *Hamburg*

GTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, top of Floors to Spar or Awning Dk. Beams	Feet.	Inches.	Power of	Horse.	No. of Decks with flat laid
per Rule			Moulded			Do.			Engines		No. of Tiers of Beams
<i>328</i>	<i>0</i>	<i>2</i>	<i>45</i>	<i>0</i>			<i>22</i>	<i>5</i>	<i>3</i>	<i>1/2</i>	<i>2</i>

Dimensions of Ship per Register, Length *330.0* breadth *45.22* depth *25.20* Spar or Awning Dk. *27* ins. *1/2* To Main Dk. Round up of Beam, Main Dk. *11 1/4* ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths in Ship.	Inches per Rule Or as Approved.
ME, Angles, or L or Bars, for 1/2 length amidships	9	3 1/2	11	9	3 1/2	11
for 1/2 at each end	9	3 1/2	10	9	3 1/2	10
in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	8	3 1/2	3 1/2	8
at intermed. Plats.						
ance of Frames from moulding edge to moulding edge, all fore and aft	24		24			
ERSED FRAME, Angles (B.N. Frame)	3 1/2	3 1/2	9	3 1/2	3 1/2	9
FRAMING, depth of girder						
ORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships						
in way of Engines and Boilers						
thickness at the ends of vessel						
depth at 1/2 the half bdth. as per Rule						
height extended at the Bilges						
ORS & BRACKETS, in Cell Dble Bottoms	40	+	9	40	+	9
Distance apart	40	+	10	40	+	10
TRE GIRDER, in Double bottom, depth and thickness	40	+	10	40	+	10
Angles, Top	4	4	9	4	4	9
Bottom	6 1/2	4	9	6 1/2	4	9
GIRDERS, number and thickness	6 1/2	3 1/2	9	6 1/2	3 1/2	9
Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	8
GIN PLATE, depth (exclusive of flange) and thickness	3 1/2	3 1/2	8	3 1/2	3 1/2	8
Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	8
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	30	+	9	30	+	9
thickness in Engine and Boiler space						
Remainder in Holds						
MS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	6 1/2	3	9	6 1/2	3	9
Angles on upper edge	4	3	9	4	3	9
Average space	4	3	9	4	3	9
MS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	4	3	9	4	3	9
Angles on upper edge	4	3	9	4	3	9
Average space	4	3	9	4	3	9
MS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
Angles on upper edge						
Average space						
MS, Hold, or Orlop, Plate or Tee Bulb						
Angles on upper edge						
Average space						
MS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	3 1/2	10	8 1/2	3 1/2	10
Angles on upper edge	4	3	9	4	3	9
Average space	4	3	9	4	3	9
MS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	2 1/2	3 1/2	12	2 1/2	3 1/2	12
Angles on upper edge	4	3	9	4	3	9
Average space	4	3	9	4	3	9
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	3	9	4	3	9
Angles on upper edge	4	3	9	4	3	9
Average space	4	3	9	4	3	9
ALLS, In tween Deck, size and spacing	4 1/8	+	4	4 1/8	+	4
Hold	4 1/8	+	4	4 1/8	+	4
Quarter, tween Dks.,	4 1/8	+	4	4 1/8	+	4
in Hold	4 1/8	+	4	4 1/8	+	4
EB-FRAMES, In Fore Body, No. and spacing	4 1/8	+	4	4 1/8	+	4
brdth. & thickness	4 1/8	+	4	4 1/8	+	4
No. of Side Stringers	4 1/8	+	4	4 1/8	+	4
WEB FRAMES, In E. & B. Space, No. & spacing	4 1/8	+	4	4 1/8	+	4
brdth. & thickness	4 1/8	+	4	4 1/8	+	4
EB FRAMES, In After Body, No. and spacing	4 1/8	+	4	4 1/8	+	4
brdth. & thickness	4 1/8	+	4	4 1/8	+	4
No. of Side Stringers	4 1/8	+	4	4 1/8	+	4
Size of Angles or Tee Bars to Web Frames	4 1/8	+	4	4 1/8	+	4
BRACKET PLATES to Stringers between Web Frames, depth and thickness	4 1/8	+	4	4 1/8	+	4

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	10 1/2	10 1/2
STEM, moulding and thickness	10 1/2	10 1/2
STERN-POST for Rudder do. do.	11	11
for Propeller	11	11
MAIN PIECE of Rudder, diameter at head	8 1/2	8 1/2
do. at heel	6 1/2	6 1/2

RUDDER, how constructed *Cast Steel single plate 2 1/2*Can the Rudder be unshipped afloat? *Yes*

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths in Ship.	Inches per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate						
Rider Plate						
Bulb Plate to Intercoastal Keelson						
Horizontal Plates on Floors						
Angles						
SIDE KEELSON, Angles						
Bulb or Plate above floors, for lng.						
Intercoastal Plate, for lng.						
Attached to outside plating with Angle						
BILGE KEELSON, Angles						
Bulb or Plate above floors, for lng.						
Intercoastal Plate, for lng.						
Attached to outside plating with Angle						
BILGE STRINGER Angles						
Bulb Plate, for lng.						
Intercoastal Plate, for lng.						
Attached to outside plating with Angle						
SIDE STRINGER Angles/Bulbs up	19	3 1/2	13	19	3 1/2	13
Bulb or Intercoastal Plate, for lng.	19	3 1/2	13	19	3 1/2	13
Attached to outside plating with Angle	19	3 1/2	13	19	3 1/2	13

Spar, or Awning Deck Stringer Plates, breadth and thickness	60	+	10	60	+	10
Angle on ditto	4	+	4	4	+	4
Tie Plates, fore and aft, outside Hatchways	4	+	4	4	+	4
Diagonal Tie Plates, No. of p's						
Deck * <i>Iron</i> Steel, for <i>Full</i> lng.	7	+	6	7	+	6
Wood Deck, Material and thickness						
Main Deck Stringer Plate, breadth & thickness	4 1/2	+	10	4 1/2	+	10
Angles on ditto, No. 2	4	+	4	4	+	4
Tie Plates, outside Hatchways	4	+	4	4	+	4
Diagonal Tie Plates, No. of p's						
Deck * <i>Iron</i> on Steel, for <i>Full</i> lng.	6	+	6	6	+	6
Wood Deck, Material and thickness						
Lower Deck Stringer Plates, br'dth & thck'n's						
Angles on ditto, No.						
Tie Plates, outside Hatchways						
Deck * Material and thickness						
Hold, or Orlop Stringer Plate, br'dth & thck'n's						
Angles on ditto, No.						
Tie Plates, outside Hatchways						
Deck, Material and thickness						
Poop Deck Stringer Plate, breadth & thickness	2 1/2	+	8	2 1/2	+	8
Angles on ditto	2 1/2	+	8	2 1/2	+	8
Tie Plates	2 1/2	+	8	2 1/2	+	8
Deck, Material and thickness						
Bridge Deck Stringer Plate, br'dth & thickness	2 1/2	+	8	2 1/2	+	8
Angle on ditto	2 1/2	+	8	2 1/2	+	8
Tie Plates	2 1/2	+	8	2 1/2	+	8
Deck, Material and thickness						
Forecastle Deck Stringer Plate, br'dth & th'kns	2 1/2	+	8	2 1/2	+	8
Angle on ditto	2 1/2	+	8	2 1/2	+	8
Tie Plates	2 1/2	+	8	2 1/2	+	8
Deck, Material and thickness						

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.

	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up.
	In Vessel.	Per Rule.	Horizontal Vertical		
W. T. BULKHEADS	4	5	4	4	4
PARTITION	4	5	4	4	4
LONGITUDINAL	4	5	4	4	4

Are the outside Plates doubled two spaces of Frames in length? *Yes*

PLATING.										RIVETING.																																																																																																																																																																																																																																																																																																																																						
STRAKES.	AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.																																																																																																																																																																																																																																																																																																																																
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DOUBLING OF PLATE KEEL																																																																																																																																																																																																																																																																																																																																																
Length and thickness of Bilge Strakes	11' 4" at each end of Bridge																																																																																																																																																																																																																																																																																																																																															
POOP SIDES	12' 10"																																																																																																																																																																																																																																																																																																																																															
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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, Plating, &c. <i>Youngs Martin Steel</i>										Spar or Awning Butts, treble riveted for <i>Full</i> length amidship.																																																																																																																																																																																																																																																																																																																																						
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FRAMES extend in one length from <i>Keel to Bridge and Bridge to Gunwale</i>																																																																																																																																																																																																																																																																																																																																																
REVERSED FRAMES on floors and frames extend from <i>as per approved plans</i>																																																																																																																																																																																																																																																																																																																																																
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<table border="1"> <thead> <tr> <th rowspan="2">LOWER MASTS</th> <th rowspan="2">Material</th> <th rowspan="2">Total Length</th> <th colspan="2">DIAMETER AND T-ICKNESS.</th> <th rowspan="2">No. of Plates in round.</th> <th rowspan="2">ANGLES.</th> <th rowspan="2">RIVETING.</th> </tr> <tr> <th>Heel</th> <th>Hounds.</th> </tr> </thead> <tbody> <tr> <td>Fore</td> <td>Steel</td> <td>20'</td> <td>20"</td> <td>20"</td> <td>2</td> <td>45°</td> <td>Double Rivet</td> </tr> <tr> <td>Main</td> <td>"</td> <td>20'</td> <td>20"</td> <td>20"</td> <td>2</td> <td>45°</td> <td>Double Rivet</td> </tr> <tr> <td>Mizen</td> <td>"</td> <td>20'</td> <td>20"</td> <td>20"</td> <td>2</td> <td>45°</td> <td>Double Rivet</td> </tr> </tbody> </table>																				LOWER MASTS	Material	Total Length	DIAMETER AND T-ICKNESS.		No. of Plates in round.	ANGLES.	RIVETING.	Heel	Hounds.	Fore	Steel	20'	20"	20"	2	45°	Double Rivet	Main	"	20'	20"	20"	2	45°	Double Rivet	Mizen	"	20'	20"	20"	2	45°	Double Rivet																																																																																																																																																																																																																																																																																											
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Sails <i>Load</i> Suit of <i>one</i> Sails, and the following spare sails <i>4' 6" Steel Wire</i>																																																																																																																																																																																																																																																																																																																																																
EQUIPMENT No. <i>25705</i> LETTER <i>W</i> APPROVED <i>per midship section</i> ANCHORS.																																																																																																																																																																																																																																																																																																																																																
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What arrangements for deadlights in bad weather? <i>Stones glass shutters</i>																																																																																																																																																																																																																																																																																																																																																
Coal Bunker Openings—How constructed? <i>Steel</i> Coaming and top																																																																																																																																																																																																																																																																																																																																																
Number of Scuppers, and number and dimensions of Freeing Ports, &c. <i>8</i> Scuppers and <i>4</i> Freeing ports <i>1' 0" x 1' 0"</i> each side																																																																																																																																																																																																																																																																																																																																																
Ceiling in Holds, thickness and material <i>2 1/2" Pine</i> Floor-boards Ceiling 'tween Decks, thickness and material <i>Copper</i>																																																																																																																																																																																																																																																																																																																																																
Cargo Hatchways—How formed? <i>Steel</i> Coaming																																																																																																																																																																																																																																																																																																																																																
State size No. 1 Hatch (Forward) <i>12' 0" x 16' 0"</i> No. 2 Hatch <i>12' 0" x 16' 0"</i> No. 3 Hatch <i>12' 0" x 16' 0"</i> No. 4 Hatch <i>12' 0" x 16' 0"</i>																																																																																																																																																																																																																																																																																																																																																
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch <i>1</i> Web Plate <i>12' 0" x 16' 0"</i> <i>3</i> Web Plates <i>12' 0" x 16' 0"</i>																																																																																																																																																																																																																																																																																																																																																
No. of Breasthooks <i>3</i> No. of Crutches <i>3</i>																																																																																																																																																																																																																																																																																																																																																
Bulwarks, height above deck and description <i>2' 6" Steel</i> Main Rail, material and size <i>Steel</i> Rail Section																																																																																																																																																																																																																																																																																																																																																
The above is a correct description.																																																																																																																																																																																																																																																																																																																																																
Builder's Signature (here only) <i>Edwin L. Price</i> Surveyor's Signature <i>James M. Neil</i> <i>13th Lane</i>																																																																																																																																																																																																																																																																																																																																																
Surveyor to Lloyd's Register of British & Foreign Shipping.																																																																																																																																																																																																																																																																																																																																																

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *7/3/02*

21/3/02; 2/4/02; 19/4/02; 12/6/02

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? *2 rivets*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

General Remarks (State quality of workmanship, &c.) *This vessel has been constructed in accordance with the approved amended Midship Section forwarded to London on the 13th inst. and plans attached, the Secretary's letter and in other respects with the Rules for the 100 A. 1. Spar deck class, and the materials and workmanship throughout are good.*

A Copy of the approved Midship Section is enclosed to be retained with this report, but please return the original plans for dealing with the construction of the sister vessel N-231

A Copy of the letter from the Owners agreeing to dispensing with the Close fitting on tank tops in some parts of the holds is attached to this report.

The deck and waterways have been tested by water and found satisfactory, and the pumps and water tight doors have been examined and tested and found in good working order

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *23* ft., R.Q.D. or Break *4* ft., Bridge Dk. *180* ft., F' castle *39* 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). *1st (Steel) & Spar (Steel) & Deep Framing*

Official No. *—*; Signal Letters *—*

How are the surfaces preserved from oxidation? Inside *Paint* and *Paint* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system *In the Cellular System*

Where fitted.	Length.		Water Capacity.	Where fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft.	90.0	15.6		Fore peak tank.	—	—	
Double bottom, forward.	140.0	33.6		After peak tank.	14.0	5.4	
Double bottom, under Engines and Boilers.	40.0	11.0		Midship deep tank.	—	—	
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. *3360* Date *28.4.02*

Order for Ordinary Survey No. *—* Date *—*

No. *430* in builder's yard.

1st. On the several parts of the frame, when in place, and before the plating was wrought *1902. Apr. 10. 15. May 25. 19. 22. 29. June 19. July 2.*

2nd. On the plating during the process of riveting *18. 19. 21. 23. Aug. 5. 11. 15. 22. 26. 28. Sep. 1. 11. 12. 16. 19. 22. 23. 24.*

3rd. When the beams were in and fastened, and before the decks were laid *26. 29. 30. Oct. 1. 6. 7. 9. 12. 14. 21. 23. 31. Nov. 5. 7. 10. 12. 14. 17. 21. 26. 27. Dec. 1.*

4th. When the ship was complete, and before the plating was finally coated or cemented *28. 9. 11.*

5th. After the ship was launched and equipped

Total No. of Visits *62*

The amount of Entry Fee. *5* : : : *19 DEC 1902*

Special Survey Fee *105* : : : *24 DEC 1902*

Travelling Expenses, if any *—* : : : *27 DEC 1902*

I am of opinion this Vessel should be Classed *100 A. 1. Steel* Spar deck *James M. Neil* *13th Lane*

With, or without Freeboard, as condition of Class *Without*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned *100 A. 1. Steel*

London & CP

+ 2 MC 12, 02

7D

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