

163. in R.B.

STEEL SAILING SHIP.

No. 5990

Port of Newcastle Date of completion of ReportSurvey held at Newcastle Date of First Survey 5th Oct. 1910

Received at London Office

On the Steel Hopper Barge "IRK"Last Survey 2nd March 1911Rig NoneTONNAGE under Tonnage Deck 740.22CLASS 100 A.1. "HOPPER BARGE" FEET.Master C. Solway

Do. of Poop

Do. of raised Or.
Deck

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Deck

Do. of excess of Hatchways

Gross Tonnage 740.22

Less Crew Space

TONNAGE FOR FEES.. 740.22

Less Navigation spaces

Register Tonnage 740.22

as cut on Beam

Breadth (greatest moulded) 36.5Depth, at middle of length, from top of keel to top of
Upper Deck Beam, at side 14.0Transverse Number 50.5Length, on deck from fore part of stem to after part of
sternpost 180.0Longitudinal Number 9090Depth "d" at middle of length. (See Secs. 2 & 13.) 12.33Proportions, Depths to length, Upper Deck beam at
side to top of keel 12.8Destined Voyage ✓If Surveyed while Building, Afloat, or in Dry Dock SpecialYear of Appointment 11
(1) As master in service of
(2) As master of this
vesselBuilt at Bill Meaf on - LeedsWhen built 1911 Launched 15th Feb. 1911By whom built Wood, Skinner & Co. Ltd.Owners Edmund Nuttall & James NuttallManagers Edmund Nuttall & Co.

(Where necessary to be entered in Reg. Book)

Residence ManchesterPort belonging to Manchester

LENGTH on deck as per rule	Feet. <u>180</u>	Inches. <u>0</u>	BREADTH— Moulded	Feet. <u>36</u>	Inches. <u>6</u>	DEPTH— Top of Floors to Upper Deck Beams	Feet. <u>13</u>	Inches. <u>1</u>	No. of Decks with Flat laid No. of Tiers of Beams
Dimensions of Ship per Register, Length, <u>180.3</u> breadth, <u>36.7</u> depth, <u>13.05</u> Moulded depth, ft. <u>14</u> in. <u>0</u> Round up of Beam <u>9</u> ins.									

FORGINGS AND CASTINGS.

Inches in Ship.

Inches per Rule.
Or as Approved.

KEEL, Bar, depth and thickness	<u>Flat Plate</u>	
STEM, moulding and thickness	<u>6 1/2 x 1 7/8</u>	<u>6 1/2 x 1 7/8</u>
STERN-POST, do. do.	<u>6 1/2 x 2 1/8</u>	<u>6 1/2 x 2 1/8</u>
RUDDER—A x D Table 22 (4. tons. knots)	<u>25 1/2</u>	
" Main Piece, diameter at head	<u>4 3/4</u>	<u>4 3/4 approx</u>
" " " heel	<u>4 1/2</u>	<u>4 1/2</u>

RUDDER, how constructed

Single plate, LaminatedCan the Rudder be unshipped afloat? Yes

FRAMING.

Inches in Ship.

Inches in Ship.

Inches in Ship.

Inches per Rule.

Inches per Rule.

Inches per Rule.

Inches per Rule.

FRAME, Angles, <u>E or L</u> Bars, amidships	<u>5</u>	<u>3</u>	<u>38</u>	<u>5</u>	<u>3</u>	<u>38</u>
" in peaks	<u>5</u>	<u>3</u>	<u>38</u>	<u>5</u>	<u>3</u>	<u>38</u>
Spacing of Frames from centre to centre, amidships	<u>24</u>			<u>24</u>		
" " " in peaks	<u>24</u>			<u>24</u>		
REVERSED FRAME, Angles, amidships	<u>3</u>	<u>2 1/2</u>	<u>26</u>	<u>3</u>	<u>2 1/2</u>	<u>26</u>
" " " in peaks	<u>on top of floor forward & aft of hopper</u>					
FRAMING, depth of girder						
FLOORS, depth and thickness of Floor Plate at mid line for 2/3 length amidships	<u>20</u>		<u>38</u>	<u>20</u>		<u>38</u>
" thickness at the ends of vessel			<u>38</u>			<u>38</u>
" depth at 1/2 the half breadth, as per Rule						
" height extended at the Bilges	<u>Straight</u>			<u>Straight</u>		
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<u>6</u>	<u>3</u>	<u>40</u>	<u>6</u>	<u>3</u>	<u>40</u>
" Angles on Upper Edge						
" Average space	<u>AT ENDS</u>	<u>24</u>		<u>24</u>		
BEAMS, Second or Lower Deck, Plate, Tee, Bulb or Channel	<u>6</u>	<u>3</u>	<u>40</u>	<u>6</u>	<u>3</u>	<u>40</u>
" Angles on Upper Edge						
" Average space		<u>48</u>		<u>48</u>		
BEAMS, Third or Orlop Deck, Plate, Tee, Bulb or Channel						
" Angles on Upper Edge						
" Average space						
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on Upper Edge						
" Average space						
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on Upper Edge						
" Average space						
BEAMS, Forecastle Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on Upper Edge						
" Average space						

PILLARS, In 'tween Decks, Size and spacing	<u>25 1/8</u>	<u>48</u>	<u>25 1/8</u>	<u>48</u>
" " Hold	<u>25 1/8</u>	<u>48</u>	<u>25 1/8</u>	<u>48</u>
" " Quarter, 'tween Dks.				
" " in Holds				

WEB FRAMES, Number and spacing	
" Breadth and thickness	
" No. of Side Stringers, breadth and thickness	
" Size of Face Angles to Web Frames	
PARTIAL BULKHEADS, as per Sketch, page 143, No.	
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness	

KEELSONS AND STRINGERS.

Inches in Ship.

Inches in Ship.

Inches in Ship.

Inches per Rule.

Inches per Rule.

Inches per Rule.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			<u>32</u>		<u>32</u>
" Rider Plate					
" Flat Keel Plate Angles	<u>3 1/2</u>	<u>3 1/2</u>	<u>40</u>	<u>3 1/2</u>	<u>40</u>
" Horizontal Plates above floors	<u>12</u>		<u>32</u>	<u>12</u>	<u>32</u>
" Angles on Bulb Angles	<u>4</u>	<u>3</u>	<u>34</u>	<u>4</u>	<u>3</u>
SIDE KEELSONS, Number (FORWARD & AFT)	<u>See</u>		<u>See</u>		<u>See</u>
" Angles on Bulb Angles	<u>4</u>	<u>3</u>	<u>34</u>	<u>4</u>	<u>3</u>
" Plate above floors for lng.					
" Intercoastal Plate for full lng.			<u>32</u>		<u>32</u>
" Attached to outside Plating with Angle	<u>3</u>	<u>3</u>	<u>34</u>	<u>3</u>	<u>3</u>
BILGE KEELSON, Angles or Bulb Angles	<u>4</u>	<u>3</u>	<u>34</u>	<u>4</u>	<u>3</u>
" Plate above floors for lng.					
" Intercoastal Plates for full lng.			<u>32</u>		<u>32</u>
" Attached to outside Plating with Angle	<u>3</u>	<u>3</u>	<u>34</u>	<u>3</u>	<u>3</u>
SIDE STRINGERS, Number (IN WAY OF HOPPER)	<u>See</u>		<u>See</u>		<u>See</u>
" Angle	<u>4</u>	<u>3</u>	<u>34</u>	<u>4</u>	<u>3</u>
" Intercoastal Plates for full lng.			<u>34</u>		<u>34</u>
" Attached to outside Plating with Angle	<u>Flush to shell</u>				
Upper Deck Stringer Plate, breadth and thickness	<u>66</u>	<u>44</u>	<u>34</u>	<u>66</u>	<u>44</u>
" Angle on ditto	<u>4 x 3</u>	<u>46</u>		<u>4 x 3</u>	<u>46</u>
" Tie Plates, fore and aft, outside Hatchways					
" Diagonal Tie Plates, No. of Pcs.					
" Main Dk. * Iron or Steel for full len.			<u>30</u>		<u>30</u>
" Wood Deck, Material and thickness					
Second or lower Deck Stringer Plate, breadth and thickness	<u>24</u>	<u>32</u>	<u>24</u>	<u>32</u>	<u>32</u>
Is the Stringer Plate attached to the Outside Plating?	<u>Yes</u>		<u>Yes</u>		
" Angles on ditto, No. 2	<u>3 x 3</u>	<u>30</u>		<u>3 x 3</u>	<u>30</u>
" Tie Plates, outside Hatchways	<u>12</u>	<u>34</u>		<u>12</u>	<u>34</u>
" Diagonal Tie Plates, No. of Pcs.					
" Deck, Material and thickness					
Third or Orlop Deck Stringer Plate					
Is the Stringer Plate attached to the Outside Plating?					
" Angles on ditto, No.					
" Tie Plates, outside Hatchways					
Poop Deck Stringer Plate, breadth & thickness					
" Angle on ditto					
" Tie Plates					
" Deck, Material and thickness					
Bridge Deck Stringer Plate, breadth & thickness					
" Angle on ditto					
" Tie Plates					
" Deck, Material and thickness					
Forecastle Deck Stringer Plate, breadth & thickness					
" Angle on ditto					
" Tie Plates					
" 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.	Spacing		
				Inches.	Inches.	Inches.		
W. T. BULKHEADS	3	3	44	Single box beam	4 1/2 x 3 3/8	24	Single	Upper 44
COLLISION	"		30	30	4 x 3 3/8	24	Single	Upper 44
PARTITION	"				4 x 3 3/8			

Are the outside Plates doubled two spaces of Frames in length? Brackets fitted

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)
 28/9/10 - 3/10/10 - 4/10/10 - 15/10/10 - 21/10/10 - 14/11/10 - 25/11/10.

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. Joggled shell*
 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? *A few.*
 Are the butts of Plating, Stringers, &c., properly shifted and strapped or lapped? *Yes.*
 Have all upper and weather decks been tested as required by Rules (Sec. 26, par 20)? *Yes.*
 State results of test. *Satisfactory*
 Have all gutterways been tested as required by Rules (Sec. 26, par. 20)? *Yes.*
 State results of test. *Satisfactory*

General Remarks (State quality of workmanship, &c.)
This vessel has been built in accordance with the approved plans forwarded herewith to the Secretary's letter.
The workmanship & material are good.
With reference to the equipment of this vessel see the Secretary's letter of the 22nd October 1910 which states that the equipment placed on board will be approved for the Figure 1 subject to the equipment being completed by the supply of another boiler anchor (12 cwt or more) & an additional 45 fathoms of chain cable as soon as the present extended complement of the vessel ceases. This condition to be endorsed on the Certificate of Classification.
This vessel has had a cocking boiler fitted on board & steam steering gear has been fitted.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., F'castle ☒ ft. (in feet and tenths). 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) *Plc Ok (all) 2nd deck*

Official No. *17294*; Signal Letters _____
 How are the surfaces preserved from oxidation? Inside *Portland Cement & paint.* Outside *Paint.*

Order for Special Survey No.	Order for Ordinary Survey No.	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	1910 Oct. 15. 18. 21. Nov. 2. 10. 17. 22. 29. 30. Dec. 6. 8. 14. 21. 30.
Date <i>19.10.10</i>	Date _____	2nd. On the plating during the process of riveting	1911 Jan. 11. 17. 19. 30. 31. Feb. 7. 9. 13. 14. 16. 17. 20. 21. 24. 27.	
No. <i>172</i> , in builder's yard.		3rd. When the decks were in and fastened, and before the decks were laid	<i>Mar. 2</i>	
		4th. When the ship was complete, and before the plating was finally coated or cemented ...		
		5th. After the ship was launched and equipped		Total No. of Visits. <i>30</i>

The amount of Entry Fee £ *3* : 0 : 0
 Special Survey Fee £ *37* : 0 : 0
 Travelling Expenses, if any £ : :
 Fees applied for, *MAR 8 1911*
 Received by me, *20/8/11*
 I am of opinion this Vessel should be Classed *+ 100 A. "Hopper Barge"*
 With, or without Freeboard, as condition of Class *without*

NEWCASTLE ON TYNE.
 Certificate to be sent to _____
 2 Cuts with subject name complete cut.
A. C. Swindon
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *FRI. 10 MAR 1911*
 Character assigned *100 A. Hopper Barge } subject.*
100 A. Hopper Barge } subject.
Lined 12.6.11
+ 8.13.3.11
FRID. JAN 12. 1912
TUE. JAN 16. 1912
FRID. MAR 16. 1912
FRID. SEP. 13. 1912

The Surveyor is requested not to write on or below the Committee's Minute.