

With or Without
Disconnected Erections.

STEEL STEAMER.

Received at London Office FEB. 1922

State of Report is also sent on the Machinery of the Vessel

Date of completion of report 3rd February 1921. Port of NEWCASTLE-ON-TYNE. No. 74087
Survey held at South Shields Date, First Survey 1st June 1919 Last Survey 29th January 1921

On the (State if Single, Twin, or Triple Screw) Steel Single Screw Steamer "INSTON"

Rig Schooner

TONNAGE under Tonnage Deck 1360.04

CLASS 100.A.1.

FEET.

Master F.A. Fairweather

Do. between Tonnage Dk. and 3rd and 4th Dk. 1360.04

Breadth (greatest moulded) 38.00

Year of appointment (1) As Master in service of owner of present vessel 1919 (2) As Master of this vessel 1919

Total under Upper Dk. 1360.04

Depth, at middle of length from top of keel to top of upper deck beams at side 18.83

Built at South Shields

Do. of Poop 42.27

Transverse Number 56.83

When built 1921 Launched 31/8/20.

Do. of R.Q.Dk. 120.00

Length on deck from fore part of stem to after part of stern post 270.00

By whom built Charles Kennolls & Co.

Do. of Bridge House 80.20

Longitudinal Number 15344

Owners S. Instone & Co Ltd

Do. of Forecastle 28.55

Depth "d," at middle of length (See Secs. 2 & 13) 19.91

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

Do. of Houses on Dk. 82.60

Proportions—Depths to Length—Upper Deck Beam at side to top of keel 14.34

Residence

Do. of excess of Hatchways Do. above Crown of Engine Room 119.97

" " Long Bridge Deck Beam at side to top of keel 11.82

Port belonging to London

Gross Tonnage 1833.63

Destined Voyage Hull

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

Less Crew Space 147.44

Less above Crown of Engine Room 1686.19

TONNAGE FOR FEES 1686.19

Less Engine Room 586.76

Less Navigation Spaces 45.48

& W. Ballast

Register Tonnage 1053.95

LENGTH on Deck as per Rule 270 0 BREADTH Moulded 38 0 DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams 16 8 1/2 Do. do. do. do. Second Dk. Beams 20 8 1/2 No. of Decks with flat laid one No. of Tiers of Beams one

Dimensions of Ship per Register, Length 270.2 breadth 38.2 depth 16.7 Moulded depth, ft. 22 ins. 10 To Bridge Dk. Round of Upper Dk. Beam, Actual 9 1/2 ins. Moulded depth, ft. 18 ins. 10 To Upper Dk.

FRAMING.						PILLARS.					
	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule.	Inches per Rule.		Inches in Ship.	Inches in Ship.	Inches per Rule.	Inches per Rule.	Inches per Rule.
FRAME, Angles, or Bars amidships	4	3	32	4	3	PILLARS In 'tween Deck, size and spacing	2 1/2	46	2 1/2	46	
Do. in peaks	4	3	32	4	3	" " Hold	None		None		
Do. in way of Double Bottoms at Solid Floors	3	3	32	3	3	" " Quarter 'tween Dks.,	3 3/8	-	3 3/8	-	
" " at intermdt. Bkts.						" " in Hold					
Spacing of Frames from centre to centre amidships	23			23		KEELSONS & STRINGERS.					
" " length to Collision bulkhead	23			23		CENTRE LINE KEELSON, Vertical Plate above					
" " in peaks	23			23		floors, Through Plate, or Intercostal Plate					
REVERSED FRAME, Angles	4	3	44	4	3	Rider Plate					
Do. in way of Double Bottoms at Solid Floors	3	3	32	3	3	Flat Plate Keel Angles					
" " at intermdt. Bkts.						Horizontal Plates on Floors					
FRAMING, depth of girder	4	3	44	4	3	Angles or Bulb Angles					
FLOORS, depth and thickness of Floor Plate						SIDE KEELSONS, Number					
at mid-line for 1/2 length amidships						Angles or Bulb Angles					
" in way of Engine and Boiler Spaces						Plate above floors, for length					
thickness at the ends of vessel						Intercostal Plate, for length					
depth at 1/2 the half breadth, as per Rule						Attached to outside Plating with Angle					
height extended at the Bilges						BILGE KEELSON, Angles					
FLOORS in Cell. Double Bottoms	32	35	42	32	35	Intercostal Plate, for length					
state if flanged (top & bottom)	No			No		Attached to outside Plating with Angle					
Spacing of Solid floors	23			23		SIDE STRINGERS, Number					
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	35	44	54	35	44	Angle					
Angles, Top	4	3	40	4	3	Intercostal Plate, for length					
" Bottom	4	3	40	4	3	Attached to outside plating with Angle					
" to Floors	3	3	32	3	3	Upper Deck Stringer Plate, br'dth & thickness					
Brackets at intermdt. frmg., wdth & thknss	4 1/2	4 1/2	54	4 1/2	4 1/2	(clear of Bridge)					
SIDE GIRDERS, number on each side & thickness	one	32	42	one	32	br'dth & thickness					
state if flanged (top and bottom)	No			No		(in way of Bridge)					
Angles (top and bottom)	3	3	32	3	3	Angle (clear of Bridge)					
" to Floors	3	3	30	3	3	Tie Plate at sides of Hatchways					
MARGIN PLATE, depth (exclusive of flange)	25	36	46	25	36	Deck * Iron or Steel, for full lng.					
and thickness	3 1/2	3 1/2	36	3 1/2	3 1/2	Thickness (clear of Bridge)					
Angle to Outside Plating	3 1/2	3 1/2	36	3 1/2	3 1/2	(in way of Bridge)					
" Floors	3	3	32	3	3	Wood Deck, Material & thickness					
Brackets at intermdt. frmg., wdth & thknss	8 1/2	8 1/2	42	8 1/2	8 1/2	None					
Height of Outside Brackets above at bilge	14	8	21	14	8	Second Deck Stringer Plate, br'dth & thickness					
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	35	40	48	35	40	Angles on ditto, No.					
" in Engine and Boiler space	35	38	48	35	38	Tie Plates outside Hatchways					
Remainder in Holds	32			32		Deck * Iron or Steel, for full lng.					
BEAMS, Upper Deck, Single Angle, Bulb	4	3	40	4	3	Wood Deck, Material & thickness					
Angle, Plate, Tee Bulb, or Channel						None					
" In way of Long Bridge						Third Deck Stringer Plate, br'dth & thickness					
Spacing	23			23		Angles on ditto, No.					
BEAMS, Second Deck, Single Angle, Bulb	4	3	40	4	3	Tie Plates, outside Hatchways					
Angle, Plate, Tee Bulb, or Channel						Deck * Material and thickness					
" Spacing	23			23		Fourth and Fifth Deck Stringer Plate, breadth & thickness					
BEAMS, Third and Fourth Deck, Single Angle, Bulb						Angles on ditto, No.					
Angle, Plate, Tee Bulb, or Channel						Tie Plates outside Hatchways					
" Angles on upper edge						Deck, Material & thickness					
Spacing	23			23		Poop Deck Stringer Plate, breadth & thickness					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5	3	34	5	3	Angle on ditto					
" Angles on upper edge						Tie Plates					
Spacing	23			23		Deck, Material and thickness					
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3	40	5 1/2	3	Steel Sheathed P.P. 2 1/2					
" Angles on upper edge						Bridge Deck Stringer Plate, br'dth & thickness					
Spacing	23			23		Angle on ditto					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3	40	5 1/2	3	Tie Plates					
" Angles on upper edge						Deck, Material and thickness					
Spacing	23			23		Steel Sheathed P. Pine 3"					

WEB FRAMES.				Inches in Ship.		Inches in Ship.		Inches in Ship.		Inches in Ship.		FORGINGS or CASTINGS.		Inches in Ship.		Inches in Ship.	
WEB-FRAMES, in Fore Body, No. and spacing												KEEL, Bar, depth and thickness		Hat Plate		Keel	
" " " " breadth & thickness												STEM, moulding and thickness		8 x 2 3/8		8 x 2 3/8	
WEB-FRAMES, in E. & B. Space, No. and spacing												STERN-POST for Rudder do. do.		4 x 5 1/2		4 x 5 1/2	
" " " " breadth & thickness												" " " " for Propeller		8 x 5 1/2		8 x 5 1/2	
WEB-FRAMES, in After Body, No. and spacing												RUDDER-A x D" Table 22. Speed 10		196		196	
" " " " breadth & thickness												" " " " Main-Piece, diameter at head		6 3/4		6 3/4	
" " " " No. of Side Stringers												" " " " at heel		5 1/4		5	
BRACKET PLATES to Stringers between Web Frames, depth and thickness												RUDDER, how constructed Single Plate, Forged Built frame					
BULKHEADS.				Number.		Thickness.		STIFFENERS.		Single or Double Frames.		Height up state deck.					
W.T. BULKHEADS				14		14		Horizontal.		Vertical.							
" " " " 8								Inches.		Inches.							
Eng. Room. 55								Inches.		Inches.							
Cross Banker 88								Inches.		Inches.							
" COLLISION " 33								Inches.		Inches.							
PARTITION " 108								Inches.		Inches.							
LONGITUDINAL.								Inches.		Inches.							
Are the outside Plates doubled two spaces of Frames in length?				No.		Brackets.						Can the Rudder be unshipped afloat?		Yes			
Are the Side Valves and Watertight Doors in efficient working order?				Yes								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.?		Consell Iron Co. South Durham S.S. Co.		Bolchew Vaughan & Co. Cargo Fleet Iron Co.	
PLATING.				AS IN SHIP.		PER RULE OR AS APPROVED.		EDGES.		RIVETING.							
STRAKES.				AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		FORWARD.		AFT.			
FLAT PLATE KEEL.....				42		74		56		42		74		56			
GARBOARD or A Strake				66		52		52		66		52		52			
State actual thickness in way of Double Bottom.				66 1/2		50		50		66 1/2		50		50			
D "				62 1/2		50		40		62 1/2		50		50			
E "				63		54		40		63		54		54			
F "				61		54		40		61		54		54			
G "				44		62		40		44		62		62			
H " Main Sheer				43 1/2		50		40		43 1/2		50		50			
J " Bridge Sheer				54		50				54		50		50			
K "				45 1/2		54				45 1/2		54		54			
L "																	
M "				44		54		40		44		54		54			
N " G.H.				43 1/2		54		40		43 1/2		54		54			
O " R.Q.				54		60		40		54		60		60			
P " Q.																	
R " R.																	
S " S.																	
T " T.																	
U " U.																	
V " V.																	
W " W.																	
THICKNESS OF STRAKE CLEAR OF LONG BRIDGE				43 1/2		76		43		76		double		6 1/2		4	
DO. OF STRAKE BELOW				as above													
DELT. of Flat Plate Keel				forward		50 from 10' 0" within Bridge to 1/8 L forward		50 = 20' 0" at Break of R. & Dk.									
Length and thickness.				32				32		Single		2 1/4		5/8		2 1/2	
POOP SIDES				as above													
SHOW BRIDGE SIDES				34				34		Single		2 1/4		5/8		2 1/2	
FORECASTLE SIDES																	
Upper Deck				Butts, 2nd riveted for 1/2 L		length amidship.		Butts of Side Stringers		riveted.							
Stringer Plate				Treble 1 in bridge		whole length amidship.		Tie Plates		riveted.							
Second Deck				Butts, Treble riveted for 1/2 L		length amidship.		Inner Bottom Plating, riveting of Edges		Single Butts Double							
Stringer Plate				Treble riveted for 1/2 L		whole length amidship.		Centre Girder Butts, Treble riveted		Keelson Butts.		riveted.					
Frames, riveted through Plates with				7/8 in. Rivets, about		6 1/4 apart.		Rivets, state whether Iron or Steel		iron							
FRAMES extend in one length from Margin Plate to Main & Raised Quarter Dks.				State if ordinary or joggled		joggled		REVERSED FRAMES on floors and frames extend from Centre Keelson to Margin		State if ordinary or joggled		joggled					
MASTS, SPARS, &c.																	
LOWER MASTS				Fore		Steel		64-9		23 x 34		18 1/2 x 30		19 x 30		14 1/2 x 30	
Main				Steel		58-8 1/2		"		"		"		"		18 x 30	
Mizen																	
Dowsprit																	
Topmasts, Yards and Remainder of Spars				Telescope		Pitch pine		Topmasts - Total Length. Main 25-3 Fore 23-6 - Housing 5-0									
Rigging, Material and Size, Shrouds				3 1/2		B.A. Wire		Stays		3 1/2 x 2" B.A. Wire							
Sails.				None		Suit of		Sails, and the following spare sails									

EQUIPMENT No. 16478				LETTER 9				ANCHORS.				TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS																																			
Number of Certificate.				Anchors.				WEIGHT, EX. STOCK.				TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 31.				Description of Anchor.				Makers.				Where and when tested and Superintendent.																			
54606				1st Bower				33 2 0				31 5 -				33 0 0				Stockless				S. Taylor & Sons				Tipton 18/5/20 W.R. Drysdale																			
54605				2nd "				33 1 21				31 3 0				33 0 0				"				" " " "				" " " "																			
54607				3rd "				28 2 7				27 10 0				28 0 0				"				" " " "				" " " "																			
54628				4th "				95 2 0				94 0 0				94 0 0				"				" " " "				" " " "																			
54629				Stream				8 2 21				10 15 0				8 2 0				Common				S. Taylor & Sons				Tipton 20/5/20 W.R. Drysdale																			
54629				Kedge				4 1 21				6 15 0				4 2 0				"				" " " "				" " " "																			
Particulars of Drop Test of Cast Steel Anchors, viz.:-				1st Bower 20.25 out. CEW. 639				Middlesbrough 30/3/20				Weight including Pins 22.5-4																																			
Weight, Surveyor's Initials, Number of Certificate, Date of Test.				2nd " 20.19 " CEW 638				" 30/3/20				" " 22.2-21																																			
				3rd " 16.45 " J.D. 5222				Glasgow 9/4/20				" " 18.3-7																																			
				4th "																																											
CHAIN CABLES.																																															
Number of Certificate.				Length and size supplied.				Test per Certificate.				WEIGHT OF CHAIN CABLE.				Length and size per Table 31.				Description.				Makers of Cables.				Where and when tested, and Superintendent.				Material.				Length and size supplied.				Breaking Test of Steel Wire.				Length and size per Table 31.			
54458				135 1/2				1 1/16 5/16 25 1/4 1/8				199-0-24 3 1/4 2 1/2 2 1/4				1 1/2 Stud link				not stated				Tipton 16/3/20				Pernis				2-90 3 1/2				26 1/2 1 1/2				2-90 3 1/2							
54459				105 1/2				1 1/16 5/16 25 1/4 1/8				193-0-0				1 1/2 Stud link				not stated				" " " "				" " " "				2-90 5				2 1/2 1 1/2				2-90 5							
Iron (Cable)				4 1/2				33 1/2				4 1/2				4 1/2				4 1/2				4 1/2				4 1/2				4 1/2				4 1/2				4 1/2							
Steel Wire																																															
Boats				2 - 26 feet lifeboats & 1-16 feet dinghy																																											
Pumps, Number				1 Downton				1-3" to forepeak tank top																																							
Windlass is				Steam Horizontal				3" " " " Emerson Walker																																							
Engine Room Skylights				How constructed?				Steel																																							
Coal Bunker Openings				How constructed?				Steel Coamings																																							
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.				forward 3 scuppers & 4 ports 2-10 x 1-8 each side																																											
Ceiling in Holds, thickness and material				2 1/2 W. Pine																																											
Cargo Hatchways				How formed?				Steel Coamings																																							
State size No. 1 Hatch (Forward)				28' 9" x 18' 0" to 25' 0"				No. 2 Hatch 28' 9" x 25' 0"																																							
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch				5 Webs to each Hatch				no fore & afters																																							
Covers laid fore and aft																																															
Bulwarks, height above deck and description				4-6" Steel Plate																																											
The foregoing is a correct description.																																															
Builder's Signature (here enter)				James R. R. & Co.																																											
Surveyor's Signature				J. Hodgson																																											
Correspondence				State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)																																											
Secs. Letters				1919: April 14 June 10 July 7 Aug 17 Sep 17 Dec 4 1920 Feb 13 May 27 June 3 Sep 10, 17 (Hd) Dec 2																																											
Workmanship				Are the butts of plating planed or otherwise fitted?				planed and overlapped																																							
Is the riveted work properly closed?				Yes																																											
Are the liners between the frames and plates solid single pieces?				Frames joggled																																											
to plate, &c., conform well to each other?				Yes																																											
from the faying surfaces?				Yes																																											
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. 26, par. 20)?				Yes																																											
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)?				Yes																																											
General Remarks (State quality of workmanship, &c.)				This vessel is built in accordance with the approved plans and Secretary's letters. The materials and workmanship are good and to my satisfaction																																											
The Approved plans showing modifications as built are forwarded herewith together with forging certificates																																															
The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans to be forwarded with F.E. Report showing vessel as built.																																															
The amount of Entry Fee				£ 5 - - -																																											
Special Survey Fee				£ 166 - 14 - -																																											
Travelling Expenses, if any £																																															
State whether the Vessel has been built under Special Survey				Yes																																											
I am of opinion this Vessel should be Classed				100-A1																																											
With, or without Freeboard, as condition of Class				without																																											
Committee's Minute				FRI. 11 FEB. 1921																																											
Character assigned				100-A1																																											
Lloyd's Assn. P.O.																																															
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GENERAL REMARKS—(continued).

Whilst fitting out afloat at South Shields This vessel sustained damage stated caused by Collision with S/s. 'Moman' on 13 November 1920
On enquiry it was intimated that no special damage survey report was required and it was not stated by whom such report was prepared.

The following repairs were carried out:—

- Shell plating port Side. Main Sheer strake N° 6 plate from aft renewed
N° 4 plate faired in place One plate in strake below faired in place
1. Main frame faired in place
2. Bulwark plates removed faired & refitted and 1. faired in place
2 lengths rail bar removed faired & refitted
5 bulwark stays removed faired & refitted

Summary.

	Plates	Frames	Other items
Renewed	1		as stated.
Removed faired & replaced	✓		
Faired in place	2	1	

Hodgson

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21.7 ft., R.Q.D. 102.2 ft., Bridge 55.6 ft., Forecastle 26.0
(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 should appear in the Register Book) 1 dk Steel.

Official No. 145138 ; Signal Letters

State if Machinery is fitted aft No.

How are the surfaces preserved from oxidation? Inside Paint and Cement

Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular.

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	93.9	220.0	Fore peak tank,		146
Double bottom, under Engines and Boilers, Feed Water.	24.9	73.5	After peak tank,		7
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,		
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	115	240.0	Other tanks, if fitted,		
	Total capacity of double bottom 233.8	533.5	(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. 4569.

Date 9.12.1919

No. 185 in builder's yard.

DATE of Surveys held while building

1919
Sep. 14 Oct. 3 15 31 Nov. 26 Dec. 9
1920
Jan. 7 22 30 Feb. 6 12 18 27 Mar. 26 Apr. 23 May
11 26 Jun. 1 15 18 29 Jul. 8 15 22 Aug. 5 12 16 18 20 28 30 31 Sep. 10 13 Oct. 21
1921
Nov. 8 16 19 24 30 Dec. 7 16 22 Jan. 11 17 21 28 29

Surveyor's Signature

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Total No. of Visits 49