

Awning or Shelter Deck,

STEEL STEAMER.

No. 8884.

or Pl. Awning Deck.

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

Yes (None)

Port of Middlesbrough Date of completion of Report 24.3.15 Received at London Office THU. MAR. 25. 1915
 Survey held at Stockton Date, First Survey August 13. 1914 Last Survey March 17. 1915.
 On the (State if Single, Twin, or Triple Screw) S.S. "Halberdier" Rig Schooner

TONNAGE under Tonnage Deck... 848.29 CLASS +100A1 "Shelter Dk" FEET. 34.83 Master David Graham Ball
 Do. between Tonnage Dk and 3rd, 4th, or Awning Dk. ✓ Breadth (greatest moulded) 17.00 Year of Appointment 1892
 Total under Upper Dk. 40.19 Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 51.83 Built at Stockton-on-Tees
 Do. of Poop 9.30 Deduct height of tween deck when this does not exceed 8ft. ✓ When built 1915 Launched 1.2.15
 Do. of R. Qr. Dk. 78.26 Transverse Number 230 By whom built Robt. Harsh
 Do. of Bridge House 1048.64 Length on deck from fore part of stem to after part of sternpost 11920 Owners London Steamers Ltd
 Do. of Forecastle 80.22 Longitudinal Number 13-11/4 Managers ✓
 Houses on Deck 78.60 Depth "d" at middle of length. See Secs. 2 & 13 9.58 (Where necessary to be entered in Reg. Book.)
 excess of Hatchways 1048.64 Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 13.53 Residence ✓
 Ave Crown of the Room 889.82 Deck at side to top of keel 13.53 Port belonging to Manchester
 Ave Crown of the Room 503.58 Upper Deck at side to top of keel ✓
 Engine Room 464.84 Destined Voyage London # Surveyed while Building, Afloat, or in Dry Dock Yes
 Navigation Spaces ✓

Net Tonnage 464.84 at on Beam... ✓ Moulded depth, ft. 24 ins. 0 To Awning or Shelter Dk. Round up of Uppermost Dk. Beam, Actual 24 ins.
 Length 230 breadth 35 depth 14.9 Upper Deck. Moulded depth, ft. 17 ins. 0 To Upper Dk.

FRAMING.				PILLARS.			
NAME, Angle, or Etc.	Inches in Ship.	Inches in Ship.	Inches in Ship.	PILLARS, in 'tween Deck, size and spacing	Inches in Ship.	Inches in Ship.	Inches in Ship.
ME, Angle, or Etc. Bars, amidships	6 1/2	3	4	" " Hold	3 1/2	46	3 1/2
" in peaks	5 1/2	3	3 1/2	" Quarter, 'tween Dks.,	2 1/2	46	3 1/2
" in way of Double Bottoms at Solid Floors	3	3	3	" " in Hold	3 1/2	46	3 1/2
" " at intermdt. Bkts.	23	✓	23	KEELSONS AND STRINGERS.			
ing of Frames from centre to centre amidships	23	✓	23	CENTRE LINE KEELSON, Vertical Plate above			
length to collision bulkhead	23	✓	23	floors, Through Plate, or Intercostal Plate			
of Frames from centre to centre in peaks	23	✓	23	Rider Plate			
VERSE FRAME, Angles				Flat Keel Plate Angles			
" in way of Double bottoms at Solid Floors				Horizontal Plates on Floors			
" " at intermdt. Bkts.				Angles or Bulb Angles			
AMING, depth of girder				SIDE KEELSONS, Number			
DOORS, depth and thickness of Floor Plate				Angles or Bulb Angles			
at mid-line for 1/2 length amidships				Plate above floors, for length			
in way of Engine and Boiler spaces				Intercostal Plate, for length			
thickness at the ends of vessel				Attached to outside plating with Angle			
depth at 1/2 the half-bdth. as per Rule				BILGE KEELSON, Angles			
height extended at the Bilges				Intercostal Plate, for length			
DOORS, in Cell Double Bottoms				Attached to outside plating with Angle			
state if flanged (top and bottom)				SIDE STRINGERS, Number			
spacing of Solid				Angles			
NTRE GIRDER, in Dbl. bottom, dpth. & thickness				Intercostal Plate, for lng.			
" " Angle, Top				Attached to outside plating with Angle			
" " " Bottom				Awning or Shelter Deck Stringer Plates,			
" " to Floors				breadth and thickness			
Brackets at intermdt. frmg., wdth & thkns				Angle on ditto			
DE GIRDERS, number and thickness				Tie Plates, fore and aft, outside Hatchways			
state if flanged (top & bottom)				Deck * Iron or Steel, for Full lng.			
Angles				Wood Deck. Material & thickness			
RGIN PLATE, depth (exclusive of flange)				Upper Deck Striger Plate, breadth and			
and thickness				thickness			
Angles to outside plating				Angles on ditto, No.			
" to floors				Tie Plates, outside Hatchways			
Brackets at intermdt. frmg., wdth & thkns				Deck * Iron or Steel, for Full lng.			
Height of Brackets above at bilge				Wood Deck. Material & thickness			
IER BOTTOM PLATING, breadth and				Second Deck Stringer Plates, br'dth & thckn's			
thickness of Middle Line Strake				Angles on ditto, No.			
" thickness in Engine and Boiler space				Tie Plates, outside Hatchways			
Remainder in Holds				Deck * Material and thickness			
AMS, Awning or Shltr Dk, Single Angle,				Third, Fourth & Fifth Deck Stringer Plate,			
Bulb Angle, Plate, Tee Bulb or Channel				breadth and thickness			
Spacing				Angles on ditto, No.			
AMS, Upper Deck, Single Angle, Bulb Angle,				Tie Plates, outside Hatchways			
Plate, Tee Bulb or Channel				Deck. Material and thickness			
Spacing				Poop Deck Stringer Plate, breadth & thickness			
AMS, Second, Third & Fourth Deck, Single				Angles on ditto			
Angle, Bulb Angle, Plate, Tee Bulb or Channel				Tie Plates			
Angles on upper edge				Deck. Material and thickness			
Spacing				Bridge Deck Stringer Plate, br'dth & thickness			
AMS, Poop Deck, Angle, Bulb Angle, Plate,				Angle on ditto			
Tee Bulb or Channel				Tie Plates			
Angles on upper edge				Deck. Material and thickness			
Spacing				Forecastle Deck Stringer Plate, br'dth & th'kns			
AMS, Bridge Deck, Angle, Bulb Angle, Plate,				Angle on ditto			
Tee Bulb or Channel				Tie Plates			
Angles on upper edge				Deck. Material and thickness			
Spacing							
AMS, Forecastle Deck, Angle, Bulb Angle,							
Plate, Tee Bulb or Channel							
Angles on upper edge							
Spacing							

WEB FRAMES.	Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.	Inches per Rule. Or as Approved.	FORGINGS or CASTINGS.	Inches in Ship.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing					KEEL, Bar, depth and thickness		
" " " brdth. & thickness					STEM, moulding and thickness	7 1/4 x 2 1/2	7 1/4 x 2 1/2
" " " No. of Side Stringers " "					STERN-POST for Rudder do. do.	6 1/2 x 5	6 1/2 x 5
WEB-FRAMES, In E. & B. Space, No. & spacing					" for Propeller	7 1/4 x 5	7 1/4 x 5
" " " brdth. & thickness	14	22	14	22	RUDDER-A x D* Table 22. Speed	10-12 knots	
WEB-FRAMES, In After Body, No. and spacing					" Main-Piece, diameter at head	6	6
" " " brdth. & thickness					" " " at heel	4 1/2	4 1/2
" " " No. of Side Stringers " "							
" " " Size of Face Angles to Web-Frames							
BRACKET PLATES to Stringers between Web Frames, depth and thickness							

BULKHEADS.	Number.	Thickness.	STIFFENERS.	Single or Double Frames.	Height up, state deck.
	Vessel.	Per Rule.	Horizontal.	Vertical.	
		Inches.	Size.	Spacing.	
			Inches.	Inches.	
W.T. BULKHEADS	113	3/32	7 x 3/4	24	Single
"	76	26/3	6 x 3/4	30	"
"	51	28/3	"	"	"
"	27	"	6 x 3/4	"	"
" COLLISION "	6	26/3	206 x 3/4	36	"
PARTITION "	56	28/3	9 x 3/4	36	"
LONGITUDINAL "	"	"	6 x 3/4	36	"

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

Are the Staircase Valves and Watertight Doors in efficient working order? *Yes*

RUDDER, how constructed *As per plan. No rivets. Comp.*

Thickness of Plates or Single Plate *9/16*

Can the Rudder be unshipped afloat? *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.?

Open Hearth.

South Durham, Nidderke, Vaughan, Consett.

Palmers, Bolton, Long.

Iron: South Durham

Has the Steel been tested as required by the Rules? *Yes*

PLATING.						RIVETING.											
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.						
	AMIDSHIP.		FORWARD.		AFT.		Ordinary or Joggled?		RIVETS.		STRAPS.		IF LAPPED.				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	For what Length.	
FLAT PLATE KEEL	42	1/2	5/8	5/8	42	1/2	Double	6	1	3/16	Double	1	3 1/2	19	1/4	11 1/2	Full
GARBOARD OF A Strake	72	1/4	1/4	1/4	72	1/4	"	4 1/2	1/4	3/16	2-8	3/4	3 1/2	"	"	"	"
State actual thickness in way of Double Bottom.	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	C	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	D	5 1/4	"	3/8	"	"	Single	2 1/2	"	2/8	"	"	"	"	"	"	"
"	E	72	"	3/8	"	"	"	"	"	"	"	"	"	"	"	"	"
"	F	"	"	"	"	"	Double	4 1/2	"	3/16	"	"	"	"	"	"	"
"	G	8 1/4	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	H	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	J	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	K	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	L	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	M	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	N	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	O	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	P	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	Q	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	R	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	S	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	T	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	U	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	W	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

THICKNESS OF SHEET STEEL CLEAR OF LONG BRIDGE

DO. OF STRAKE BELOW

DELT. of Flat Plate Keel

" Sheerstrakes

Length and thickness.

POOP SIDES

SHORT BRIDGE SIDES

FORECASTLE SIDES

Awning or Shelter Deck	Butts, riveted for	Half	length amidship.	Butts of Side Stringers	riveted.
Stringer Plate	Straps, single, double or overlapped for	"	length amidship.	" Tie Plates	riveted.
Upper Deck	Butts, riveted for	Full	length amidship.	Inner Bottom Plating, riveting of Edges	Single Butts D-S.
Stringer Plate	Straps, single or overlapped for	"	length amidship.	Centre Girder Butts, Y-D	riveted Keelson Butts, riveted.
				Frames, riveted through Plates with	3/4 in. Rivets, about 7 dia. apart.
				Rivets, state whether Iron or Steel	Iron

FRAMES extend in one length from *centre girder to margin, thence to 4' 6" back* State if ordinary or joggled *Ordinary*

REVERSED FRAMES on floors and frames extend from *"* State if ordinary or joggled *"*

MASTS, SPARS, &c.											
	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	59' 9"	18 x 35	18 x 35	18 x 3	Two	"	"	Single	Double	
	Main	"	"	"	"	"	"	"	"	"	
	Mizen	"	"	"	"	"	"	"	"	"	
Bowsprit	"	"	"	"	"	"	"	"	"	"	
Topmasts, Yards and Remainder of Spars	"	"	"	"	"	"	"	"	"	"	
Rigging, Material and Size, Shrouds	"	"	"	"	"	"	"	"	"	"	
Sails, 10 Fore & Main by sail.	"	"	"	"	"	"	"	"	"	"	
Sails, and the following spare sails.	"	"	"	"	"	"	"	"	"	"	

EQUIPMENT No. 13453 LETTER 0 ANCHORS.																		
Number of Certificate.	Anchors.	WEIGHT, LBS. STOCK			WEIGHT OF STOCK ^{Hand}			TEST, PER CERTIFICATE.				WEIGHT REQ. BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.				
43095	1st Bower	28	1	0	17	0	0	27	6	1	0	28	0	0	brown Smith's ^{See Patent state Name of Patent} J. Brown		Tipton 23.10.14 C.E. Perkins	
43094	2nd "	28	0	0	16	3	21	27	2	2	0	28	0	0		"	"	" 22 " " "
43093	3rd "	24	2	21	14	3	14	24	8	1	21	24	0	0		"	"	" " " " "
	Collective weight	80	3	21	Stock							80	0	0				
43106	Stream	7	0	0	1	3	14	9	5	0	0	7	0	0	ordinary	"	" 46 " " "	
43105	Kedge	4	0	14	1	0	7	6	10	0	0	4	0	0	"	"	" " " " "	

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and Size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Fathoms 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 Towline.	Fathoms and size per Table 31.			
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Fathoms.	Ins.					Length.	Cir.		Fathoms.	Ins.		
44405	240	1 9/16	43.9	61.4	249.3.0	249.2.19	240	1 9/16	Shank	J. Brown	Tipton 29.10.14 C. E. Perkins	TOWLINE	78	3 3/4	22	78	3 3/4		
												HAWSERS & WARPS	90	"	"	90	"		
												" "	"	7	"	"	7		
Iron Steam Cable or Steel Wire...	60	3 3/4	29					60	3 3/4	Craven & Shuding	Sunderland 18.12.14	" "	"	6	"	"	6		
														2090	5	2090	5		

Boats Two 21' Life: One 14' Wherry
Pumps, Number Downson to Bilge: hand to Hand
Windlass is Emerson Walker & Thompson Hand & Steam Capstan Steam Winches
Engine Room Skylights.—How constructed? Planks & angles What arrangements for deadlights in bad weather? Bulbays
Coal Bunker Openings.—How constructed? No How are lids secured? Battens & Harps Height above deck? 18"
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 5 Scuppers on Shells, 1/2 x 5 7/8 x 2 1/2 x 1' 3" each side
Ceiling in Holds, thickness and material 2 1/2" Mr Cargo Battens, thickness and material 2 1/2" Mr
Cargo Hatchways.—How formed? Planks & angles 12 Hatches, If strong and efficient? Yes
State size No. 1 Hatch (Forward) 11' 6" x 13' No. 2 Hatch 23' x 14' No. 3 Hatch No. 4 Hatch
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch Not Two No 2 & 3 Four
No. of Breasthooks 2 No. of Crutches 12
Bulwarks, height above deck and description 42" x 25" Main Rail and Stays, material and size 8 1/2" x 3" x 3 7/8"
The foregoing is a correct description. ROPNER & SONS, LIMITED.
Builder's Signature (here only) J.W. Smith Surveyor's Signature J.H. Baker
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)
M. 17.30 June: 30 July: 11 Aug: 3.14 Sep: 1914
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 the plating? A few
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 State results of tests Satisfactory
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests
General Remarks (State quality of workmanship, &c.) Good

This vessel has been built in accordance with the approved plans the Secretary's letters of above dates, and in general conformity with the Rules for the Class contemplated Collision bulkhead fitted as required by the Rules & steering gear built and found working satisfactorily. Trueboards designed, marked & verified

Seven Plans and one forging report are forwarded herewith

The Surveyor should state the Number of Report and Name of any Sister Vessel built or Yard Number of any building.

The amount of Entry Fee M. £ 3 : 0 : 0 Fees applied for, 24/3/1915
Special Survey Fee £ 44 : 10 : 0 Received by me.
Travelling Expenses, if any £ : : : 27 Mar 1915 29/3/15
State whether the Vessel has been built under Special Survey Yes
I am of opinion this Vessel should be Classed +100 at Shutter back
With, or without Freeboard, as condition of Class With
Certificate to be sent to Middlesbrough Date of issue 30/3/15
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. MAR. 26 1915
Character assigned 100A
Shutter at 100 fbd
Lloyd's 206 P.
+ 100 3/15

The Surveyor is requested not to write on or below the Committee's Minute.
W
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W879-0090 2/2

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ (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 Stk (Oak) & Shelter Stk (Iron)*
Official No. *138364*; Signal Letters _____ State if Machinery is fitted aft *no*
How are the surfaces preserved from oxidation? Inside *Paint & Amant* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. *Cell - 473*

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>53.62</i>	<i>80</i>	Fore peak tank,		<input checked="" type="checkbox"/>
Double bottom, under Engines and Boilers,			After peak tank,	<i>10.95</i>	<i>11</i>
Double bottom, if under Engines only,	<i>19.16</i>	<i>32</i>	Deep tank, aft,		<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,			Deep tank, forward,		<input checked="" type="checkbox"/>
Double bottom, forward,	<i>99.66</i>	<i>129</i>	Other tanks, if fitted,		<input checked="" type="checkbox"/>
Total capacity of double bottom		<i>211</i>	(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. *Y-6*

Order for Special Survey No. *1117*
Date *21/8/14*
No. *499* in builder's yard.
DATES of Surveys held while building *1914 Aug 13. 24. 26. 27. Sep. 3. 4. 10. 16. 21. 24. 30 Oct 2. 5. 13. 16. 22. 27. Nov. 2. 4. 9. 11. 16. 19. 23. 26. 27. Dec. 2. 11. 16. 18. 22. 28. 31. 1915 Jan 6. 8. 12. 14. 17. 22. 26. Mar. 5. 9. 10. 12. 15. 16. 17.*
Total No. of Visits *48*

Surveyor's Signature