

~~Awning or Shelter Deck,~~
~~or Pt. Awning Deck.~~

Enclid
STEEL STEAMER.

No. *60793*

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

Port of *Newcastle-on-Tyne* Date of completion of Report

Received at London Office *TUE. AUG. 8-1911*

Survey held at *Howdon-on-Tyne*

Date, First Survey *13th July 1910*

Last Survey *31st July 1911*

1911

On the *Steel Screw Steamer "HORLEY"*

Rig *Schooner*

TONNAGE under Tonnage Deck *4636.10*

CLASS *100 A1.*

FEET.

Master *D. Williams*

Do. between Tonnage Dk and 3rd, Ath. or Awning Dk.

Breadth (greatest moulded) *51.66*

Year of Appointment

Total under Upper Dk.

Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck *31.00*

Do. of Pop.

Deduct height of 'tween deck when this does not exceed 8ft. *82.66*

Built at *Howdon-on-Tyne*

Do. of R. Qr. Dk.

Transverse Number

When built *1911* Launched *15th Feb 1911*

Do. of Bridge House (Chalk)

Length on deck from fore part of stem to after part of sternpost *410*

By whom built *The Northumberland S.B. Co. Ltd*

Do. of Houses on Deck

Longitudinal Number *33890*

Owners *Houlder Middleton & Co. Ltd*

Do. of excess of Hatchways

Depth "d" at middle of length. See Secs. 2 & 13. *16.10*

Managers *Houlder Middleton & Co. Ltd*

Do. above Crown of Engine Room

Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel *10.51*

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

Gross Tonnage *4770.01*

Upper Deck at side to top of keel *13.44*

Residence *London*

Net Tonnage *100.21*

Destined Voyage *Far East*

Port belonging to *London*

Do. above Crown of Engine Room

Do. of excess of Hatchways

If Surveyed while Building, Afloat, or in Dry Dock *Special Survey*

Do. of Navigation Spaces

Do. of excess of Hatchways

Do. of Ballast Space

Do. of excess of Hatchways

Register Tonnage *3095.64*

Do. of excess of Hatchways

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WEB FRAMES.				Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing							
" " " brdth. & thickness							
" " " No of Side Stringers " "							
WEB-FRAMES, In E. & B. Space, No. & spacing				One	One		
" " " brdth. & thickness				21 x 44	21 x 42		
WEB-FRAMES, In After Body, No. and spacing				One in Dup Lank space			
" " " brdth. & thickness				21 x 44	21 x 42		
" " " No. of Side Stringers " "							
" " " Size of Face Angles to Web-Frames.....				6" flange			
BRACKET PLATES to Stringers between Web Frames, depth and thickness.....							

BULKHEADS.	Vessel.	Number.	Per Rule.	Thickness.	STIFFENERS.				Single or Double Frames.	Height up.
					Horizontal.		Vertical.			
				Inches.	Size.	Spacing.	Size.	Spacing.		
				Inches.	Inches.	Inches.	Inches.	Inches.		
W.T.BULKHEADS	7	7								
After Peak No 9				36-34			18-2	8-3-54	24	Single upper end
Bulkhead No 39				33			9-3-52	31		
" No 62				40-36			10-3-64	24-26		
" No 79				40-36			10-3-64	24-26		
COLLISION No 103				36-30			9-3-50	27-31		
PORT No 151				34			10-3-60	30-31		
LONGITUDINAL				44-34	8-3-44	apex plan	10-3-64	24		
COLLISION No 180										

Are the outside Plates doubled two spaces of Frames in length? *No joggled plating*

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

FORGINGS or CASTINGS.		Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar, depth and thickness		Flat plate keel	
STEM, moulding and thickness		10 x 2 7/16	10 x 2 29/32
STERN-POST for Rudder do. do.		9 x 7 1/2	9 x 7 1/2
" for Propeller		10 1/2 x 7 1/2	10 1/2 x 7 1/2
RUDDER-A x D* Table 22. Speed Under 12		15 1/4 x 3-33/4	= 502-83
" Main-Piece, diameter at head		10	10
" " " at heel.....		7 1/2	7 1/2

RUDDER, how constructed *Cast Steel, Single plate, Arms at + between pintles*

Thickness of ~~Plates~~ Single Plate *7/8*

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. ? *Palmer's Shipbuilding & Iron Co. Ltd.*

Cargo & Lub. Iron Co. Ltd. South Durham Steel & Iron Co. Ltd. Consett Iron Co. Ltd.

Open Heart

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

PLATING.										RIVETING.											
STRAKES.		AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES, Ordinary or joggled?				BUTTS.							
		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.		Breadth of Lap.		RIVETS.		Double or Treble and for what Length.		RIVETS.		STRAPS.	
		Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.		Breadth.	Diam.	Spacing or to cr.	Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	For what Length.
FLAT PLATE KEEL.....		54	82	58	58	54	82	Double	6	1	3 3/4	2nd 1/2 length	1	4			14	7 1/2			
GARBOARD or A Strake		75	70	52	52	75	70	"	5 1/4	7/8	3 1/4	"	1	4			14				
State actual thickness in way of Double Bottom.		B	69	64	48	48	69	64	"	"	"	"	7/8	3 1/2			12				
C		75 1/2	64	48	48	76	64	"	"	"	"	"	"	"							
D		66 1/2	64	48	48	66 1/2	64	"	"	"	"	"	"	"							
E		66	64	48	48	66	64	"	"	"	"	"	"	"							
F		71	68	46	50	70 3/4	68	"	"	"	"	Double 7/4	3 1/2					10 1/2			
G		71	68	46	50	71	68	"	"	"	"	"	"	"							
H		71	64	46	46	71	64	"	"	"	"	"	"	"							
J		71	64	46	46	71	64	"	"	"	"	"	"	"							
K		72	64	46	46	72	64	"	"	"	"	2nd 1/2 length	3 1/2					12			
L		80	66	46	46	80 1/4	66	"	"	"	"	"	1	4				14			
M																					
N																					
O		<i>Strakes A, B & C reduced .04 in thickness in way of Engine & Boiler space, then floors fitted at every frame</i>																			
P		<i>A, B & C. Maintain their midship thickness to Collision Bulkhead.</i>																			
Q		<i>F & G increased .04 in thickness for omission of side stringers, and increase carried right aft.</i>																			
R																					
S																					
T																					
U																					
V																					
W																					
THICKNESS OF STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW																					
DBLG. of Flat Plate Keel																					
" Sheerstrakes Length and thickness.																					
POOP SIDES																					
SHORT BRIDGE SIDES ...																					
FORECASTLE SIDES																					

Anning or Shelter Deck Stringer Plate	Butts, <i>Double</i> riveted for all fore + aft length amidship.	Butts of Side Stringers <i>✓</i> riveted.
	Straps, single, double or overlapped for full length amidship.	Tie Plates <i>✓</i> riveted.
Upper Deck Stringer Plate	Butts, <i>Double</i> riveted for all fore + aft length amidship.	Inner Bottom Plating, riveting of Edges <i>remain single</i> Butts <i>remain double</i> <i>✓</i>
	Straps, single or overlapped for full length amidship.	Centre Girder Butts, <i>Double</i> riveted Keelson Butts, <i>✓</i> riveted.
2nd Deck Stringer Plate	Butts <i>Double</i> riveted all fore and aft and overlapped for full length	Frames, riveted through Plates with <i>7/8</i> in. Rivets, about <i>5 1/4</i> apart.
		Rivets, state whether Iron or Steel <i>Iron</i> .
FRAMES extend in one length from <i>Bilge</i> to <i>Upper Deck</i> State if ordinary or joggled <i>Ordinary</i>		
REVERSED FRAMES on floors and frames extend from <i>Flanged floors + Built angle framing</i> State if ordinary or joggled <i>✓</i>		

MASTS, SPARS, &c.											
	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLE.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS.....	Fore	<i>Steel</i> 89.75	26 1/2 x 45	25 x 35	✓	17 x 30	One	✓	✓	Single	Double
	Main	88.00	"	"	✓	"	"	✓	✓	"	"
	Mizen.....										
Bowsprit.....											
Topmasts, Yards and Remainder of Spars <i>Pitch Pine</i>											
Rigging, Material and Size, Shrouds <i>3 1/4 Gal Steel wire</i> Stays <i>3 3/4 Gal Steel wire</i>											
Sails. <i>✓</i> Suit of <i>✓</i> Sails, and the following spare sails <i>✓</i>											

Write "Aiming or Shelter Deck" "Shiver Strake" opposite the corresponding letter.

EQUIPMENT No. 36624-7 LETTER Z																ANCHORS.															
Number of Certificate.		Anchors.		WEIGHT, EX. STOCK			WEIGHT OF STOCK.			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.															
13991		1st Bower		64	0	14	Stockless			50	12	2	0	63	3/4	-	Ryeon Stockless		W.L. Ryeon & Co. Ltd		Humberland St. 2/11 L. Haffner & Co.										
13894		2nd "		62	3	7	"			50	0	0	0	63	3/4	-	"		"		2/11 " "										
13998		3rd "		56	0	0	"			46	0	0	0	54	2	-	"		"		11/2/11 " "										
Collective weight				182	3	21								182	-	-															
36843		Stream		17	2	0	14	2	0	18	12	2	0	17	1/2	-	Iron Stock		The Earl's Quay, London E.C.4		Lipton 17/10/10 C.G. Parsons										
36842		Kedge		7	2	0	1	3	14	9	13	3	0	7	1/2	-					17/10/10 " "										

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.	Status.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.									Length.	Ins.	Tons.	Fathoms.	Ins.									
37863		270	2 1/2	9/8	127 5/8	682	2-0	682	1-11	270	2 1/2	Steel link	The Earl's Quay, London E.C.4	Lipton 15/10/10 C.G. Parsons	TOWLINE		120	5	59	120	5	59									
Stream		90	4 3/4	47				90	4 3/4							HAWSERS & WARPS		90	3 1/2	26	90	3 1/2	26								
Steel Wire		90	4 3/4	47				90	4 3/4									2-90	2 1/2	12 1/2	2-90	2 1/2	12 1/2								

Boats Two life boats, 1 dingy, 1 cutter
Pumps, Number Hand Pumps to Fire Peak + Bowditch
Windlass is Steam Direct Acting by Emmerson, Walker + Thompson Capstan
Engine Room Skylights.—How constructed? Steel plates + angles What arrangements for deadlights in bad weather? Strong Bullseyes.
Bunker Openings.—How constructed? Built angle ironing How are lids secured? Torpaules + batten Height above deck? 9'
Number of Scupperns, and numbers and dimensions of Freeing Ports, &c. Each side from Shutter upper Deck, one freeing port 2' x 2' in fore and aft space
Plating in Holds, thickness and material 2 1/2 White pine Cargo Battens, thickness and material 6 x 2 White pine
Cargo Hatchways.—How formed? Plates + angles Hatches, If strong and efficient? Yes.
Plate size No. 1 Hatch (Forward) 28'2" x 15'11 1/4" x 1'-6" No. 2 Hatch 28'2" x 15'11 1/4" x 1'-6" No. 3 Hatch 25'10" x 17'11 1/4" x 1'-6" No. 4 Hatch 26'0" x 15'11 1/4" x 1'-6"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch No 1+2 = 5 webs, No 3-4 + 5 = 4 webs, no free rafters.
No. of Breasthooks 2 and decks. No. of Crutches 2 up floor
Mastworks, height above deck and description Rails and stanchions Main Rail and stays, material and size ✓
Is foregoing is a correct description NORTHUMBERLAND SHIPBUILDING COMPANY, LIMITED.
Builder's Signature (here only) Richard Garlick Surveyor's Signature Alex Munro
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) M. 17-6-10, 29-6-10,
7-10, 19-7-10, E. 20-7-10, M. 22-7-10, E. 29-7-10, M. 12-8-10, 23-8-10, 31-8-10, 7-9-10, 14-9-10, 6-10-10, 7-10-10.
Workmanship. Are the butts of plating planed or otherwise fitted? Planed
Are 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? Very 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 Good
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Good
General Remarks (State quality of workmanship, &c.) This vessel has been built in accordance with the accompanying approved plans (10 in number) the Secretary's letter of the above mentioned date, and in general conformity with the rules.

The vessel has been placed in dry dock 2/8/11 bottom + under examined cleaned + painted

The Surveyor should state the Number of Report and Name of any Sister Vessel.
Amount of Entry Fee £ 5 : 0 : 0 Fees applied for, 19
Special Survey Fee.... £141 : 15 : 0 Received by me, 11.8.19
Travelling Expenses, if any £ : :
Whether the Vessel has been built under Special Survey Yes
In my opinion this Vessel should be Classed +100A1. Shelter Deck
With, or without Freeboard, as condition of Class With Freeboard.
Committee's Minute TUE AUG. 15. 1911
Character assigned 100A1
Shelter dk with fwd
Lloyd's at 100
Thurs 6.11
WJ

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. *Complete Shellie Deck with Tonnage Opening aft.*

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 should appear in the Register Book) *2 Dks (Stl) + Shellie Dk. (Stl)*

Official No. *132574* ; Signal Letters

State if Machinery is fitted aft

Amidships

How are the surfaces preserved from oxidation? Inside *Paint + Cement*

Outside *Paint*

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

Where Fitted.	*Length. Feet.	Water Capacity, Tons.	Where Fitted.	*Length. Feet.	Water Capacity, Tons.
Double bottom, aft,	<i>143.00</i>	<i>382</i>	Fore peak tank,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, under Engines and Boilers,	<i>47.66</i>	<i>183</i>	After peak tank,	<i>10.0</i>	<i>28</i>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,	<i>36.83</i>	<i>905</i>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,		
Double bottom, forward,	<i>169.00</i>	<i>532</i>	Other tanks, if fitted,		
Total capacity of double bottom	<i>1097</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. *Yes*

Order for Special Survey No. *4198*

Date *3.8.1910*

No. *149* in builder's yard.

DATES OF SURVEYS held while building

1910
Feb. 13. 18. 20. 22. 25. 26. 29. Aug. 19. 29. 31. Sept. 1. 8. 9. 14. 21. 22. 26. 29. 30. Oct. 3. 4. 5. 6. 7. 11. 13. 18. 20. 24. 26. 27. Nov. 10. 16. 17. 21. 25. 28. 30. Dec. 2. 5. 9. 14. 29. Jan. 9. 18. 27. 31. Feb. 7. 14. 24. 27. Apr. 8. 7. 19. 28. 1911
Apr. 7. May. 2. 5. Jun. 8. 27. 29. Jul. 4. 24. 25. 26. 31.

Surveyor's Signature

Aled. Munro

Total No. of Visits *6*

Lloyd's Register Foundation