

With or Without
Disconnected Erections.

STEEL STEAMER.

Received at London Office

Date of completion of report 11 JUN 1919 Port of Sunderland
Survey held at Sunderland Date, First Survey 2 July 18 Last Survey 2nd June 1919
On the (State if Single, Twin, or Triple Screw) Single Screw Steamer "BRETWALDA" Rig Schooner
TONNAGE under 4844-08 CLASS 100 A1. Master J. L. Peterson
Tonnage Deck... Breadth (greatest moulded) 52-00
Do. between Tonnage Dk. } Depth, at middle of length from top of keel to top of
and 3rd and 4th Dk. } upper deck beams at side 31-00
Total under Upper Dk. 4844-08 Transverse Number 83-00
Do. of Poop 159-58 Length on deck from fore part of stem to after part of
Do. of R.Q.Dk. } stern post 400-00
Do. of Bridge House } Longitudinal Number 33200
Do. of Forecastle } Depth "d," at middle of length (See Secs. 2 & 13) 16-4
Do. of Houses on Dk. 189-35 Proportions—Depths to Length—Upper Deck Beam at
Do. of excess of Hatchways 52-29 side to top of keel 12-9
Do. above Crown of } Long Bridge Deck }
Engine Room } Beam at side to top of keel 10-2
Gross Tonnage 5293-32
Less Crew Space 189-24
Less above Crown of }
Engine Room }
TONNAGE FOR FEES 5056-03
Less Engine Room 1693-86
Less Navigation Spaces 136-64
Register Tonnage 3273-55 Destined Voyage Blyth. Surveyed while Building Afloat, or in Dry Dock

LENGTH on Deck as per Rule		Feet.	Inches.	BREADTH—Moulded		Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams		Feet.	Inches.	No. of Decks with flat laid		No. of Tiers of Beams		
400		0		52		0		Do. do. Second Dk. Beams		28	6	19		6		
										Moulded depth, ft. 38 ins. 11 1/2		To Bridge Dk.		Round of Upper Dk. Beam, Actual	13 ins.	
										Moulded depth, ft. 31 ins. 0		To Upper Dk.				
Dimensions of Ship per Register, Length 400-0 breadth 52-4 depth 28-45																
FRAMING.								PILLARS.								
								Inches in Ship.	Inches Spacing in Ship.	Inches per Rule Or as	Inches per Rule Approved.					
NAME, Angles, or E or L Bars amidships								10 1/2	3 1/2	46	10	3 1/2	46	PILLARS, In 'tween Deck, size and spacing		
E+B space								8	3	38	8	3	38	3 1/4 52 3 1/4 52		
in peaks								3 1/2	3 1/2	40	3 1/2	3 1/2	40	" " Hold " "		
in way of Double Bottoms at Solid Floors								9	3 1/2	42	9	3 1/2	42	" Quarter 'tween Dks., " "		
" " at intermdt. Bkts.								26			26			" " in Hold " "		
ing of Frames from centre to centre amidships								26			26			KEELSONS & STRINGERS.		
" " from #								26			26			Inches in Ship.		
" length to Collision bulkhead								24			24			Inches Spacing in Ship.		
" " in peaks								3 1/2	3 1/2	40	3 1/2	3 1/2	40	Inches per Rule Or as		
VERSED FRAME, Angles								8	3	46	8	3	46	Inches per Rule Approved.		
in way of Double Bottoms at Solid Floors								Bulb angle framing								
" " at intermdt. Bkts.								3 1/2	3 1/2	40	3 1/2	3 1/2	40			
MING, depth of girder								8	3	46	8	3	46			
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships								-	-	-	-	-	-			
in way of Engine and Boiler Spaces								Cellular								
thickness at the ends of vessel								double								
depth at 1/2 the half breadth, as per Rule								bottom								
height extended at the Bilges								42	10	38	42	10	38			
ORS in Cell. Double Bottoms								not flanged								
state if flanged (top & bottom)								78			78					
Spacing of Solid floors								43	50	40	43	50	40			
REG GIRDER, in Dbl. bottom, dpth. & thcknss.								6	6	66	6	6	66			
" Angles, Top								"	"	"	"	"	"			
" " Bottom								"	"	"	"	"	"			
" " to Floors								39	42	38	39	42	38			
Brackets at intermdt. frmg., wdth & thcknss								one	42	38	one	42	38			
GIRDERS, number on each side & thickness								not flanged								
" state if flanged (top and bottom)								3 1/2	3 1/2	40	3 1/2	3 1/2	40			
" Angles (top and bottom)								"	"	"	"	"	"			
" " to Floors								38	48	48	34	48				
IN PLATE, depth (exclusive of flange) and thickness								3 1/2	3 1/2	50	3 1/2	3 1/2	50			
" Angle to Outside Plating								6	6	42	6	6	42			
" " Floors								3 1/2	3 1/2	40	3 1/2	3 1/2	40			
Brackets at intermdt. frmg., wdth & thcknss								56	42	38	56	42	38			
Height of Outside Brackets above at bilge								29 1/2			29 1/2					
BOTTOM PLATING, breadth and thickness of Middle Line Strake								43	50	40	43	50	40			
" " in Engine and Boiler space								56	and	48	56	and	48			
" " Remainder in Holds								42	10	38	42	10	38			
Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								9	3 1/2	52	9	3 1/2	52			
In way of Long Bridge								"	"	"	"	"	"			
Spacing								26			26					
Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								10	3 1/2	56	10	3 1/2	56			
Spacing								26			26					
Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								-	-	-	-	-	-			
Angles on upper edge								-	-	-	-	-	-			
Spacing								-	-	-	-	-	-			
Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								8	3	40	8	3	38			
Angles on upper edge								-	-	-	-	-	-			
Spacing								26	and	24	26	and	24			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								9	3 1/2	52	9	3 1/2	52			
Angles on upper edge								-	-	-	-	-	-			
Spacing								26			26					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								9	3 1/2	46	9	3 1/2	46			
Angles on upper edge								-	-	-	-	-	-			
Spacing								26	and	24	26	and	24			

Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)		80	✓	62	80	62	
" " " " br'dth & thickness (in way of Bridge)		"	✓	48	"	48	
" " " Angle (clear of Bridge)		6 x 6	✓	52	6 x 6	52	
" " Tie Plate at sides of Hatchways		-	-	-	-	-	
" Deck. * Iron or Steel, for full lng.		52	+	62	52	+	62
" Thickness (clear of Bridge)		7	as per approved plan				
" (in way of Bridge)		40	+	36	40	+	36
" Wood Deck, Material & thickness		-	-	-	-	-	
Second Deck Stringer Plate, br'dth & thickness		62	✓	44	62	44	
" Angles on ditto, No.		3 1/2	3 1/2	44	3 1/2	3 1/2	44
" Tie Plates outside Hatchways		-	-	-	-	-	
" Deck. * Iron or Steel, for full lng.		40	+	36	40	+	36
" Wood Deck, Material & thickness		-	-	-	-	-	
Third Deck Stringer Plate, br'dth & thickness		-	-	-	-	-	
" Angles on ditto, No.		-	-	-	-	-	
" Tie Plates, outside Hatchways		-	-	-	-	-	
" Deck. * Material and thickness		-	-	-	-	-	
Fourth and Fifth Deck Stringer Plate, breadth & thickness		-	-	-	-	-	
" " Angles on ditto, No.		-	-	-	-	-	
" " Tie Plates outside Hatchways		-	-	-	-	-	
" " Deck. Material & thickness		-	-	-	-	-	
Poop Deck Stringer Plate, breadth & thickness		35	✓	30	35	30	
" Angle on ditto		3 1/2	3 1/2	34	3 1/2	3 1/2	34
" Tie Plates		-	-	-	-	-	
" Deck. Material and thickness		-	-	30	-	30	
Bridge Deck Stringer Plate, br'dth & thickness		55	✓	54	55	54	
" Angle on ditto		6 x 6	✓	48	6 x 6	48	
" Tie Plates		-	-	-	-	-	
" Deck. Material and thickness		-	-	40	-	40	
Forecastle Deck Stringer Plate, br'dth & th'kns		35	✓	30	35	30	
" Angle on ditto		3 1/2	3 1/2	34	3 1/2	3 1/2	34
" Tie Plates		-	-	-	-	-	
" Deck. Material and thickness		-	-	30	-	30	

Lloyd's Register

Foundations

If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

[illegible]

EQUIPMENT No. 34589				LETTER Y				ANCHORS.				TONNAGE U.D.K. OR PLATING NO. FOR TRAWLERS				
Number of Certificate		Anchors		WEIGHT. EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE S.I.		Description of Anchor.		Makers.	Where and when tested and Superintendent.	
Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.				
50868	1st Bower	60	3	10	-	-	48	15	0	0	60	0	0	Hackless	J. Taylor & Sons	Sigs. 25.7.18. H.C. Pearson
50861	2nd "	60	3	4	-	-	48	15	0	0	60	0	0	"	"	" " " "
50939	3rd "	50	1	24	-	-	42	13	5	0	50	2	0	"	"	" " " "
	4th "													"	"	" " " "
	Collective weight	172	0	10						170	2	0				
80948	Stream	16	2	5	14	2	12	17	18	1	21	10	1	0	Iron Stock	V. Hingley & Sons Nth. 23.1.19 H.C. Pearson
24041	Kedge	7	0	14	1	3	14	9	7	0	0	7	0	0	"	S Taylor & Sons Sigs. 19/4/19 Chaffner

CHAIN CABLES.										HAWRSERS AND WARPS.									
Number of Certificate		Length and size supplied		Test per Certificate		WEIGHT OF CHAIN CABLE		Length and Size per Table S.I.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material	Length and Size supplied		Breaking Test of Steel Wire Towline		Length and Size per Table S.I.	
Length.	Diam.	Fathoms.	Inches.	Tons.	Supplied.	Per Rule.	Cwts.	qrs.	lbs.	Fathoms.	Inches.			Length.	Cir.	Tons.	Fathoms.	Inches.	
11457	90	2 1/2	34	88 1/2	120 1/2	127 1/2				Steel	J. Taylor & Sons	Nth. 31.8.18 Chaffner	TOWLINE	120	4 3/4	4 1/2	120	4 1/2	
18703	60	"	"	"	144	150				Link	"	" 18.10.17 "	HAWRSERS & WARPS	2-90	2 3/4	15 1/2	2-90	2 3/4	
18822	60	"	"	"	143	150				"	"	" 20.12.17 "	"	2-90	2 1/2	12 1/2	2-90	2 1/2	
From Steam Crane or Steel Wire	90	4 3/4	47	-	-	-				Steel Wire	Webster & Co	"	"						

Boats 2 life boats, 1 dinghy & 1 pig
Pumps, Number one to fore peak tank top.
Windlass is Clarke Chapman Reo direct steam
Engine Room Skylights.—How constructed? Steel
What arrangements for deadlights in bad weather? Lids hulls eyes
Coal Bunker Openings.—How constructed? Steel Coamings How are lids secured? Carpaullins battened Height above deck? 1-6
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 6 scuppers & 6 ports each side. Ports 4'8" x 21"
Ceiling in Holds, thickness and material. 2 1/2 White wood over ladders only Cargo Battens, thickness and material Iron - 2 1/2 x 7 1/2
Cargo Hatchways.—How formed? Steel Coamings
Hatches, If strong and efficient? Yes
State size No. 1 Hatch (Forward) 32'6" x 20'0" No. 2 Hatch 34'8" x 20'0" No. 3 Hatch 34'8" x 20'0" No. 4 Hatch 28'2" x 20'0"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 6 webs in No. 1 & 3, 5 webs in No. 4 no fore & afters.
No. of Breasthooks Six No. of Crutches deep floors
Bulwarks, height above deck and description 3' 8" Steel plate 25 lb web angle steel Main Rail, material and size Steel built angle 8 x 3 x 33
The foregoing is a correct description.
Builder's Signature (here only) J.P. O'Sullivan Surveyor's Signature J. Allan 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)

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? joggled framing 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 Satisfactory
General Remarks (State quality of workmanship, &c.) This vessel is of Standard "B" type and has been built in accordance with the approved plans and generally in conformity with the Rules. The workmanship is good throughout
Hand pumps are not fitted in the holds Relieving tackle & Taylor & Hallister rudders brake are fitted in lieu of hand steering gear. Cement is fitted in all double bottom tanks

The vessel is a duplicate of the same Builders & Cairngowan Report No 27487.
Plans of midship section & longitudinal bulkhead are enclosed.

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: 0: 0 Fees applied for, See No 22 14/6/19
Special Survey Fee... £ 15: 5: 0 Received by me J.B.T. 23/7/19
Traveling Expenses, if any £ 39 0: 0 Date of issue 1.7.19
Certificate to be sent to SUNDERLAND
State whether the Vessel has been built under Special Survey Yes.
I am of opinion this Vessel should be Classed 100 AI
With, or without Freeboard, as condition of Class without
Surveyor J. Allan Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 20 JUN. 1919
Character assigned 100 AI
Lloyd. 196 P + 2m 66 19
F.D.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 49.25 ft., R.Q.D. — ft., Bridge 12.6 ft., Forecastle 39 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated the bridge & poop are not joined

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) 2 tr beams
 Official No. 142,834; Signal Letters — State if Machinery is fitted aft no
 How are the surfaces preserved from oxidation? Inside cement & paint 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,	<u>125.66</u>	<u>363</u>	Fore peak tank,	<u>19.25</u>	<u>1</u>
Double bottom, under Engines and Boilers,	<u>39.0</u>	<u>165</u>	After peak tank,	<u>24.66</u>	<u>2</u>
Double bottom, if under Engines only,	—	—	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	<u>179.8</u>	<u>600</u>	Other tanks, if fitted,	—	—
Total capacity of double bottom	<u>1128</u>		(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. 5372

Date 19.9.18

No. 321 in builder's yard.

DATES of Surveys held while building

1918 Jul 3, 11, 15, 18, 23, Aug 7, 15, 22, 26, Sep 2, 9, 11, 17, 23, 25, Oct 2, 8, 14, 18, 24, 25, 29, 31, Nov 4, 6, 18, 21, 25, Dec 4, 9, 11, 13, 18, 20, 23, 27, 31, Jan 9, 14, 20, 24, 30, Feb 6, 7, 10, 14, 20, 21, 25, 27, Mar 4, 5, 11, 18, 24, 28, 31, Apr 4, 11, 13, 23, 28, 29, June 2

Total No. of Visits 6

Surveyor's Signature

J. Allan
 Lloyd's Register Foundation