

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office **5 DEC 1921**

Date of completion of report **2nd Dec 1921**
Survey held at **London**

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

Port of **London**

Date, First Survey **2nd August 1921**

Last Survey **29th Nov 1921**

No. **85019**

On the (State if Single, Twin, or Triple Screw)

Single Screw Steamer BULGARIAN.

Rig **Free Aft Schooner**

TONNAGE under
Tonnage Deck
Do. between Tonnage Dk. and 3rd and 4th Dk.
Total under Upper Dk.
Do. of Poop
Do. of R.Q. Dk.
Do. of Bridge House
Do. of Forecastle
Do. of House on Dk.
Do. of excess of Hatchways
Do. above Crown of
Engine Room
Gross Tonnage
Less Crew Space
Less above Crown of
Engine Room
TONNAGE FOR FEES
Less Engine Room
Less Navigation Spaces

CLASS 100 A1.
Breadth (greatest moulded) **41' 0"**
Depth, at middle of length from top of keel to top of upper deck beams at side **21' 25"**
Transverse Number **62 25'**
Length on deck from fore part of stem to after part of stern post **291' 7"**
Longitudinal Number **18158**
Depth "d," at middle of length (See Secs. 2 & 13) **14' 94"**
Proportions—Depths to Length—Upper Deck Beam at side to top of keel **13' 72"**
Long Bridge Deck Beam at side to top of keel **10' 32"**

Master
Year of appointment (1) As Master in service of owner of present vessel—19 (2) As Master of this vessel—19
Built at **Glensburgh**
When built **1904** **Launched**
By whom built **Glensburgh Schiffst. Ges.**
Owners **W. & A. L. L. & Co. Ltd.**
Managers
(Where necessary to be entered in Reg. Book.)
Residence
Port belonging to **London**

Register Tonnage **1268**
as cut on Beam

Destined Voyage

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

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
291' 7"			41' 0"			21' 25"			one	
Dimensions of Ship per Register. Length 292.5 breadth 41.2 depth 18.8										
Moulded depth, ft. ins. To Bridge Dk. Round of Upper Dk. Beam, Actual 10 1/2 ins.										
FRAMING.										
FRAME, Angles, or [] amidships	7 1/8	3 1/2	9 1/2							
Do. in peaks	5 1/2	3 1/2	3 1/2							
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	3 1/2							
" " at intermdt. Bkts.										
Spacing of Frames from centre to centre amidships	25 1/2									
" " from 1/2 length to Collision bulkhead	25 1/2									
" " in peaks	25 1/2									
REVERSED FRAME, Angles	3 1/2	3 1/2	1/2							
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	1/2							
" " at intermdt. Bkts.										
FRAMING, depth of girder	8 1/2									
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships										
" in way of Engine and Boiler Spaces										
" thickness at the ends of vessel										
" depth at 1/2 the half breadth, as per Rule										
" height extended at the Bilges										
FLOORS in Cell Double Bottoms										
" state if flanged (top & bottom)	3 1/8		32.44							
" Spacing of Solid floors	every									
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	39 1/4	3 1/2	35 1/2							
" Angles, Top	3 1/4	3 1/4	7 1/2							
" Bottom	5 1/2	3 1/2	7 1/2							
" to Floors	3 1/2	3 1/2	3 1/2							
Brackets at intermdt. frmg., wdth & thknss	one	3 1/8	32.5							
SIDE GIRDERS, number on each side & thknss	one	3 1/8	32.5							
" state if flanged (top and bottom)	no									
" Angles (top and bottom)	3 1/2	3 1/2	3 1/2							
" to Floors	Flanged									
MARGIN PLATE, depth (exclusive of flange) and thickness	39	1/4								
" Angle to Outside Plating	3	3	3 1/2							
" Floors	3	3	3 1/2							
Brackets at intermdt. frmg., wdth & thknss										
Height of Outside Brackets above at bilge	19 1/2									
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	34	1/4	34							
" in Engine and Boiler space	52									
" Remainder in Holds	3 1/8									
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3 1/2	5 1/2							
" In way of Long Bridge										
" Spacing	every									
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel										
" Spacing										
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel										
" Angles on upper edge										
" Spacing										
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	6 1/2	2 1/4	4 1/4							
" Angles on upper edge										
" Spacing	Alt									
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	2 1/4	3 1/2							
" Angles on upper edge										
" Spacing	every									
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	2 1/4	3 1/2							
" Angles on upper edge										
" Spacing	every									
PILLARS.										
PILLARS In 'tween Deck, size and spacing										
" Hold										
" Quarter 'tween Dks.										
" in Hold										
KEELSONS & STRINGERS.										
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate										
" Rider Plate										
" Flat Plate Keel Angles										
" Horizontal Plates on Floors										
" Angles or Bulb Angles										
SIDE KEELSONS, Number										
" Angles or Bulb Angles										
" Plate above floors, for length										
" Intercoastal Plate, for length										
" Attached to outside Plating with Angle										
BILGE KEELSON, Angles										
" Intercoastal Plate, for length										
" Attached to outside Plating with Angle										
SIDE STRINGERS, Number										
" Angle										
" Intercoastal Plate, for length										
" Attached to outside plating with Angle										
Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	4 3/4	1/2								
" br'dth & thickness (in way of Bridge)	5 1/2	1/2								
" Angle (clear of Bridge)										
" Tie Plate at sides of Hatchways										
" Deck, * Steel, for whole lng.										
" Thickness (clear of Bridge)										
" (in way of Bridge)										
" Wood Deck, Material & thickness										
Second Deck Stringer Plate, br'dth & thickness										
" Angles on ditto, No.										
" Tie Plates outside Hatchways										
" Deck, * Iron or Steel, for lng.										
" 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	25 3/4	5 1/4								
" Angle on ditto	3 1/2	3 1/2	3 1/2							
" Tie Plates	1 1/4	5 1/4								
" Deck, Material and thickness	0 3/4	3								
Bridge Deck Stringer Plate, br'dth & thickness	4 1/4	1/2								
" Angle on ditto	3 1/2	3 1/2	3 1/2							
" Tie Plates, sides of Hatchways										
" Deck, Material and thickness										
Forecastle Deck Stringer Plate, br'dth & thickness	25 3/4	5 1/4								
" Angle on ditto	3 1/2	3 1/2	3 1/2							
" Tie Plates										
" Deck, Material and thickness										
* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.										

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2019 Lloyd's Register Foundation

WEB FRAMES.		Inches in Ship.	Inches in Ship.	Inches per Rule. Or as App.	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		6 in.				KEEL, Bar, depth and thickness			
" " " brdth. & thickness		20 1/2 x 3/4				STEM, moulding and thickness		10 1/2 = 2 9/16	
" " " No. of Side Stringers " "		Four				STERN-POST for Rudder do. do.		10 1/2 = 5 1/8	
WEB-FRAMES, In E. & B. Space, No. & spacing		6 in.				" for Propeller		10 1/2 = 5 1/8	
" " " brdth. & thickness		20 1/2 x 3/4				RUDDER—A x D* Table 22. Speed			
WEB-FRAMES, In After Body, No. and spacing		6 in.				" Main-Piece, diameter at head		7 5/8	
" " " brdth. & thickness		20 1/2 x 3/4				" " " at heel			
" " " No. of Side Stringers " "		Three							
" " " Size of Face Angles to Web-Frames.....		5 3/4 x 3 3/4							
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.	Size.	Spacing.		
			Inches.	Inches.	Inches.	Inches.	Inches.		
W.T.BULKHEADS		4	9/32						
			9/32						
			9/32						
" COLLISION "			9/32						
PARTITION "			9/32						
LONGITUDINAL,			9/32						

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

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

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.		AFT.		AMIDSHIP.		RIVETS.		Double or Treble and for what Length.		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.		
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Feet.		
FLAT PLATE KEEL.....		35 1/16	1	5/8 x 3/2	5/8 x 1/4	35 1/16	1	Double	6 3/4	1 3/8	4 3/4	2 and 2/3	1 3/8	4 3/4			16	2 3/4	
GARBOARD OR A Strake			5/8	7/32	9/16		5/8	"	5 5/8	1 5/16	3 3/4	2 and 2/3	1 5/16	3 3/4			9 1/2		
State actual Thickness in way of Double Bottom.			7/32	7/16	7/16		7/32	"	"	"	"	"	"	"			"		
B "			"	"	"		"	"	"	"	"	"	"	"			"		
C "			"	"	"		"	"	"	"	"	"	"	"			"		
D "			19/32	"	"		19/32	"	"	"	"	"	"	"			"		
E "			8/16	"	"		9/16	"	"	"	"	"	"	"			"		
F "			11/16	"	"		11/16	"	5 1/4	7/8	"	"	7/8	"			9		
G "			8/16	"	"		9/16	"	"	"	"	"	"	"			"		
H "			8/16	"	"		"	"	"	"	"	"	"	"			"		
J "			8/16	"	"		"	"	"	"	"	"	"	"			"		
K "			8/16	"	"		"	"	"	"	"	"	"	"			"		
L "		4 7/32	2 1/32	9/16	9/16	4 7/32	2 1/32	"	4 3/4	3/4	3	2 and 2/3	3/4	3 3/8			"		
M "			7/16	"	"		7/16	"	4 3/4	3/4	3	Double	3/4	2 5/8			7 1/2		
N "			1/2	"	"		1/2	Single to 50	2 1/2	"	"	Double	"	"			"		
O "				"	"												"		
P "				"	"												"		
Q "				"	"												"		
R "				"	"												"		
S "				"	"												"		
T "				"	"												"		
U "				"	"												"		
V "				"	"												"		
W "				"	"												"		
THICKNESS OF SHEER STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DBLG. of Flat Plate Keel		Increase as per appearance below																	
" Sheerstrakes																			
Length and thickness.																			
POOP SIDES		5/16		Single														Double	
SHORT BRIDGE SIDES		7/16		"														"	
FORECASTLE SIDES		5/16		"														"	

* Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.

Upper Deck	Butts, Treble riveted for	2/3	length amidship.	Butts of Side Stringers	Single	riveted.
Stringer Plate	Straps, single, double or overlapped for	"	length amidship.	" Tie Plates	"	riveted.
Second Deck	Butts, riveted for	"	length amidship.	Inner Bottom Plating, riveting of Edges	Single	Butts double
Stringer Plate	Straps, single or overlapped for	"	length amidship.	Centre Girder Butts, riveted	Double	Keelson Butts, riveted.
				Frames, riveted through Plates with	7/8	in. Rivets, about 5 3/4 apart.
				Rivets, state whether Iron or Steel	Iron.	

FRAMES extend in one length from *Fore side margin* to *Upper & Bridge Deck*. State if ordinary or joggled *Joggled. Ordinary.*

REVERSED FRAMES on floors and frames extend from *Fore margin* to *Fore margin* in E. & B. Space. Remainder of *Flare flanged.* State if ordinary or joggled *Ordinary.*

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										
	Main										
	Mizen										
Bowsprit											
Topmasts, Yards and Remainder of Spars											
Rigging, Material and Size, Shrouds											
Sails	Suit of										

EQUIPMENT No. 19601.				LETTER S. ✓.				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 31.		Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.				lbs.
56610	1st Bower ...	47	1	0				40	13	0	14	38	3	0	Shackles		Tolson 24/10/11 H & A Drysdale
56608	2nd „ ...	43	1	0				38	1	1	0	38	3	0	„		do
56615	3rd „ ...	36	3	0				33	11	3	14	32	2	0	„		do
	4th „ ...														„		
	Collective weight.	127	1	0								110	0	0	„		
56609.	Stream	14	1	21				15	19	0	7	12	2	0	„		do.
	Kedge.....																

Particulars of **Drop Test** of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower 30' 3" 2 L.P.H.T. 639. 25' 10" 21. H. & A. D.
2nd „ 22' 3" 14 L.P.H.T. 641. 25' 10" 21. H. & A. D.
3rd „ 20' 1" 0 L.P.H.T. 642. 25' 10" 21. H. & A. D.
4th „

CHAIN CABLES.

HAWSERS AND WARPS.

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 Towline.	Length and Size per Table 31.		
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.	Length.
69416	120	1 1/4	✓	594	8234				Shackles	Nelson 25/10/11 H. & A. Drysdale	Nelson 25/10/11 H. & A. Drysdale	TOWLINE	54	16	✓			
71415	134	1 1/4	✓	641						Woolley 25/10/11 H. & A. Drysdale	Woolley 25/10/11 H. & A. Drysdale	HAWSERS & WARPS	40	90	6	✓		
31085	14 1/2	1 1/2	✓											90	2 1/2	✓		
31086	15	1 1/2	✓											90	2	✓		
33884	100	4	✓						Cir.					90	2	✓		
Iron-Straps Chain- Steel Wire																		

Boats Three. **Steering Gear, Steam** Satisfactory **Steering Gear, Hand** Satisfactory
Pumps, Number Four **Diameter of Barrel** 2 1/2 **State whether they are in efficient working order** Yes.
Windlass is Steam **Capstan** ✓
Engine Room Skylights.—How constructed? Wood. **What arrangements for deadlights in bad weather?** Tartan
Coal Bunker Openings.—How constructed? Sub angle plate **How are lids secured?** Bottom & Tartan Height above deck? 2' 9"
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 2 Scuppers P. & S. 6 Freeing Ports P. & S. 3' 0" x 1' 8"
Ceiling in Holds, thickness and material Pitch Pine 2 1/2" **Cargo Battens, thickness and material** 1/2" rounded iron & wood
Cargo Hatchways.—How formed? Sub angle plate. **Hatches, If strong and efficient?** Yes.
State size No. 1 Hatch (Forward) 25' 4" x 14' 0" **No. 2 Hatch** 25' 4" x 14' 0" **No. 3 Hatch** 25' 4" x 14' 0" **No. 4 Hatch** 24' 6" x 14' 0"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 2 webs. 3 Fore. 1 After.
No. of Breasthooks **No. of Crutches**
Bulwarks, height above deck and description 4' 3" 1/4 Plate. 7/8" x 1/4 Slings. **Main Rail, material and size** 6 3/4" x 3" x 5/8"
The foregoing is a correct description.
Builder's Signature (here only) **Surveyor's Signature** James. Daglish. **Surveyor to Lloyd's Register of 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?

Is the riveted work properly closed?

Are the liners between the frames and plates solid single pieces?

to plate, &c., conform well to each other?

from the faying surfaces?

Are the butts of Plating, Stringers, &c., properly shifted and strapped?

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)?

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)?

General Remarks (State quality of workmanship, &c.)

This vessel has been built under the survey of Genl. Lloyd. The materials & workmanship appear to be good.

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 £ 75 : 0 : 0
Special Survey Fee £ : :
Travelling Expenses, if any £ : :
Fees applied for, 20/11/1921
Received by me, 9.1.1922 J.D.W.

Certificate to be sent to

Date of issue 21.1.22

State whether the Vessel has been built under Special Survey

I am of opinion this Vessel should be Classed

With, or without Freeboard, as condition of Class

Committee's Minute

Character assigned

FRI. 16 DEC. 1921

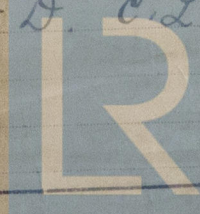
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Lloyd's A. & L. P.

P. L. W. 3. 11. 21.

L. M. 6. 11. 20

J. D. C. L.



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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.
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.			
56130	145 1/2	1 1/2	59 3/4	82 3/4	24. 2. 24				Slip Link		Tch. 29/6/21. H. A. 8740 m. l.
56141	15	"	"	"	25. 2. 12				"		" 30/6/21.
56181	"	"	"	"	25. 4. 21.				"		" 17/8/21
56182	"	"	"	"	25. 2. 15				"		"
Iron Stream Chain or Steel Wire		Cir.			418. 3. 16	394. 3. 6	240	1 9/16			

HAWSERS AND WARPS.

Material	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Length and Size per Table 31.	
	Length.	Cir.		Length.	Cir.
TOWLINE	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
HAWSERS & WARPS					
"					
"					

W486-0234

Lloyd's Register Foundation

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop $1\frac{1}{2}$ ft., R.Q.D. ft., Bridge $1\frac{1}{4}$ ft., Forecastle $3\frac{1}{4}$ (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) *One deck steel*

Official No. *143434*; Signal Letters *K.C.G.A.* 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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>97</i>	<i>255</i>	Fore peak tank,	<i>21</i>	<i>75</i>
Double bottom, under Engines and Boilers,	<i>33</i>	<i>116</i>	After peak tank,	<i>11</i>	<i>15</i>
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<i>120</i>	<i>325</i>	Other tanks, if fitted,		
Total capacity of double bottom		<i>696</i>	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. *250*

State whether the above have been tested as required by the Rules *Yes*

Order for Special Survey No.

Date

No. in builder's yard.

Dates of Surveys held while building

1921: Aug 2. 3. 4. 5. 6. 8. 9. 10. 11. 15. 16. 17. 18. 23. 25. 26. 29. 30. 31. Sep 1. 2. 5. 6. 7. 8. 12. 13. 14. 15. 29. Oct 5. 24. 26. Nov 15. 29.

Surveyor's Signature

James Daglish

Total No. of Visits *39*

Lloyd's Register Foundation