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REPORT ON MACHINERY.

SAT. JAN 5 1901

27 NOV. 1900

Port of *Glasgow*

Received at London Office. *THURS. 4 DEC 18 1900*

No. in Survey held at
eg. Book. *Sup*

Date, first Survey *16 May* Last Survey *14 Nov. 1900*

(Number of Visits *12*)

79 on the *S. S. Alberta.*

Tons { Gross *3959.75*
Net *2576.46*

When built *1900*

Master *A. Brissanich.* Built at *Port Glasgow* By whom built *Russell & Co*

Engines made at *Glenrock* By whom made *Rankin & Blackmore* when made *1900*

Boilers made at *Glasgow.* By whom made *Lindsay Burnet & Co* when made *1900.*

Registered Horse Power Owners *Inatelli Cosulich.* Port belonging to *Trieste.*

om. Horse Power as per Section 28 *346* Is Refrigerating Machinery fitted *no* Is Electric Light fitted *no.*

GINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cranks
<i>as per rule</i>	<i>as per rule</i>	<i>as per rule</i>	<i>as fitted</i>	<i>as fitted</i>
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Lgth. of stern bush
<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>
Diagrams	Dia. of screw	Pitch of screw	No. of blades	State whether moveable
<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>	<i>as fitted</i>
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
In Holds, &c.				

No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses	Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible	
Are all connections with the sea direct on the skin of the ship	Are they Valves or Cocks		
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates	Are the discharge pipes above or below the deep water line		
Are they each fitted with a discharge valve always accessible on the plating of the vessel	Are the blow off cocks fitted with a spigot and brass covering plate		
That pipes are carried through the bunkers	How are they protected		
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times			
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges			
When were stern tube, propeller, screw shaft, and all connections examined in dry dock	Is the screw shaft tunnel watertight		
Is it fitted with a watertight door	worked from		

ILERS, &c.—

(Letter for record ☒) Total Heating Surface of Boilers

Is forced draft fitted ☒

No. and Description of Boilers	<i>One Single Ended</i>	Working Pressure	<i>80 lb</i>	Tested by hydraulic pressure to	<i>160 lb</i>
Date of test	<i>29/10/00</i>	Can each boiler be worked separately	<input checked="" type="checkbox"/>	Area of fire grate in each boiler	<i>23 sq ft</i>
No. and Description of safety valves to		Area of each valve	<i>5.94 sq in</i>	Pressure to which they are adjusted	<i>80 lb</i>
Are they fitted with easing gear	<i>yes</i>	Are they fitted with easing gear	<i>yes</i>		
Smallest distance between boilers or uptakes and bunkers or woodwork	<i>Boilers on deck</i>	Mean dia. of boilers	<i>9-6 1/2</i>	Length	<i>8-0</i>
Material of shell plates	<i>Steel</i>	Thickenss	<i>1/2</i>	Range of tensile strength	<i>2732</i>
Are they welded or flanged	<i>no</i>	Descrip. of riveting	<i>circ. seam</i>	Long. seams	<i>Double R Lap</i>
Diameter of rivet holes in long. seams	<i>13/16</i>	Pitch of rivets	<i>3 7/16</i>	Lap of plates	<i>5 3/4</i>
Percentage of strength of longitudinal joint	<i>76.3</i>	Working pressure of shell by rules	<i>80 lb</i>	Size of manhole in shell	<i>16" x 12"</i>
Size of compensating ring	<i>24 1/2 x 25 x 5/8</i>	No. and Description of Furnaces in each boiler	<i>Two, plain</i>	Material	<i>Steel</i>
Outside diameter	<i>34"</i>	Length of plain part	<i>59"</i>	Thickenss of plates	<i>13/32</i>
Description of longitudinal joint	<i>Welded</i>	No. of strengthening rings	<i>None</i>		
Working pressure of furnace by the rules	<i>88</i>	Combustion chamber plates: Material	<i>Steel</i>	Thickenss: Sides	<i>1/2</i>
Back	<i>15/32</i>	Top	<i>19/32</i>	Bottom	<i>1/2</i>
Pitch of stays to ditto: Sides	<i>9 x 8 1/2</i>	Back	<i>9 x 9</i>	Top	<i>12 x 9</i>
If stays are fitted with nuts or riveted heads	<i>Nuts</i>	Working pressure by rules	<i>83 lb</i>		
Material of stays	<i>Steel</i>	Diameter at smallest part	<i>1 1/8</i>	Area supported by each stay	<i>88 sq in</i>
Working pressure by rules	<i>95 lb</i>	End plates in steam space:			
Material	<i>Steel</i>	Thickenss	<i>5/8</i>	Pitch of stays	<i>14 1/4 x 14</i>
How are stays secured	<i>Double Nuts</i>	Working pressure by rules	<i>86</i>	Material of stays	<i>Steel</i>
Diameter at smallest part	<i>2.03</i>	Area supported by each stay	<i>206 sq in</i>	Working pressure by rules	<i>98</i>
Material of Front plates at bottom	<i>Steel</i>	Thickenss	<i>9/16</i>	Greatest pitch of stays	<i>9"</i>
Working pressure of plate by rules	<i>135</i>	Diameter of tubes	<i>3 1/2</i>	Pitch of tubes	<i>4 1/4</i>
Material of tube plates	<i>Steel</i>	Thickenss: Front	<i>5/8</i>	Back	<i>5/8</i>
Mean pitch of stays	<i>12 3/4</i>	Pitch across wide water spaces	<i>13</i>	Working pressures by rules	<i>83 lb</i>
Girders to Chamber tops: Material	<i>Steel</i>	Depth and			
Thickness of girder at centre	<i>6" x 1 1/2</i>	Length as per rule	<i>23</i>	Distance apart	<i>12</i>
Number and pitch of Stays in each	<i>One, 11 1/2</i>	Working pressure by rules	<i>93 lb</i>	Superheater or Steam chest; how connected to boiler	<i>None</i>
Can the superheater be shut off and the boiler worked					
separately		Diameter		Length	
Thickenss of shell plates		Material		Description of longitudinal joint	
Diam. of rivet		Pitch of rivets		Working pressure of shell by rules	
Diameter of flue		Material of flue plates		Thickenss	
End plates: Thickenss		How stayed			
Working pressure of end plates		Area of safety valves to superheater		Are they fitted with easing gear	

DONKEY BOILER— No. 1 Description See other side.

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler no. _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____

Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____ Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
Lindsay Burns & Co. Manufacturer.

Dates of Survey { During progress of work in shops - - - 1900! May. 16. Aug. 6. 21. Sep. 18. 26. 29. Oct. 1. 4. 10. 16. 26. 29. Nov. 2. 14.
 while building { During erection on board vessel - - -
 Total No. of visits 14

Is the approved plan of main boiler forwarded herewith No Yes

General Remarks (State quality of workmanship, opinions as to class, &c.) This Donkey Boiler has been built under special survey. The materials and workmanship being of good quality, it has been tested by hydraulic pressure to (160) one hundred and sixty pounds per square inch and found tight and sound at that pressure.

This Donkey Boiler has been forwarded to Greenock to be fitted on board the S S Alberta.

Certificate (if required) to be sent to

The amount of Entry Fee... £ : :
 Special ... £ : :
 Donkey Boiler Fee ... £ 2 : 2 :
 Travelling Expenses (if any) £ : :
 When applied for, 28/11/900
 When received, 30/11/900

George Murdoch.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute Glasgow. 3-DEC 1900

Assigned

Deferred for completion
(See Gen. rpt No 12885)