

# REPORT ON MACHINERY.

No. 29419.

Received at London Office

Writing Report 12<sup>th</sup> Oct. 1910 When handed in at Local Office 17.10.10 Port of Glasgow.  
 in Survey held at Glasgow Date, First Survey 14<sup>th</sup> March/10 Last Survey 22<sup>nd</sup> Sept 1910.  
 Book. (Number of Visits 26) Tons Gross Not When built 1910

Master Built at Glasgow By whom built  
 Engines made at Glasgow By whom made McKie & Baxter (N° 563-4) when made 1910.  
 Millers made at Glasgow By whom made Babcock & Wilcox when made 1910  
 Registered Horse Power Owners Port belonging to

m. Horse Power as per Section 28 121. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines 2 Compound No. of Cylinders 4 No. of Cranks 4  
 a. of Cylinders (2) 10 1/2" (2) 23 1/2" Length of Stroke 24" Revs. per minute 140 Dia. of Screw shaft as per rule 6 1/2" Material of screw shaft as fitted 6 1/2" steel  
 the screw shaft fitted with a continuous liner the whole length of the stern tube 22' Is the after end of the liner made water tight  
 the propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part  
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two  
 ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 30"  
 a. of Tunnel shaft as per rule 6 1/2" Dia. of Crank shaft journals as per rule 6 3/8" Dia. of Crank pin 6 3/8" Size of Crank webs 8 1/4" Dia. of thrust shaft under  
 ars 6 3/8" Dia. of screw 6-9" (2) Pitch of Screw 9-6" No. of Blades 4 State whether moveable 250 Total surface 20.54  
 of Feed pumps 2 Diameter of ditto 5" Stroke 12 Can one be overhauled while the other is at work yes  
 of Bilge pumps 2 1/2" Diameter of ditto 6" Stroke 8 Can one be overhauled while the other is at work yes  
 of Donkey Engines 2 Sizes of Pumps 8" 6" 8" 6" 8" 6" No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room In Holds, &c.

of Bilge Injections / sizes 5" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size  
 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  
 all connections with the sea direct on the skin of the ship Are they Valves or Cocks  
 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  
 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  
 at pipes are carried through the bunkers How are they protected  
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges  
 es of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller  
 he Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

TERS, &c.—(Letter for record) Manufacturers of Steel  
 ul Heating Surface of Boilers 2500 Is Forced Draft fitted No. and Description of Boilers 2 Babcock & Wilcox water tube  
 icking Pressure 160 lbs. Tested by hydraulic pressure to Date of test No. of Certificate  
 each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
 boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
 llest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length of shell plates  
 kness Range of tensile strength Are the shell plates welded or flanged Description of riveting: cir. seams  
 seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
 centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
 e of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter  
 gth of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
 rking pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
 h of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
 terial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
 terial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
 meter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
 ckness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
 meter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
 h across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and  
 kness of girder at centre Length as per rule Distance apart Number and pitch of stays in each  
 rking pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked  
 rately Diameter Length Thickness 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 Thickness  
 tiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
 rking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



# VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. \_\_\_\_\_ Description \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Working pressure \_\_\_\_\_ tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of So \_\_\_\_\_

Valves \_\_\_\_\_ No. of Safety Valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ Date of adjustment \_\_\_\_\_

If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_ 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 \_\_\_\_\_ Plates \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ 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 \_\_\_\_\_

Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:— 2 top end bolts & nuts, 2 bottom end bolts & nuts, 1 set of coupling bolts & nuts, 2 main bearing bolts & nuts, fuel and feed pump valves, 1 set of piston rings, bolts & nuts of various sizes.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1910 Mar 14. 24. 31 April 4. 11. 14. 22. 26 May 3. 18. 23 June 16. 27  
During erection on board vessel - - July 6. 11. 27 Aug 3. 10. 18. 22. 30 Sep 7. 9. 15. 20. 22.  
Total No. of visits \_\_\_\_\_

Is the approved plan of main boiler forwarded herewith ☒

Dates of Examination of principal parts—Cylinders 27.6.10. Slides 27.6.10. Covers 23.5.10. Pistons 23.5.10. Rods 27.6.10.  
Connecting rods 23.5.10. Crank shaft 18.5.10. Thrust shaft 18.5.10. Tunnel shafts 26.4.10. Screw shaft 26.4.10. Propeller 18.5.10.  
Stern tube 26.4.10. Steam pipes tested ☒ Engine and boiler seatings ☒ Engines holding down bolts ☒  
Completion of pumping arrangements ☒ Boilers fixed ☒ Engines tried under steam ☒  
Main boiler safety valves adjusted ☒ Thickness of adjusting washers ☒  
Material of Crank shaft Steel Identification Mark on Do. 563-4 Material of Thrust shaft Steel Identification Mark on Do. 563-4  
Material of Tunnel shafts Steel Identification Marks on Do. 563-4 Material of Screw shafts Steel Identification Marks on Do. 563-4  
Material of Steam Pipes ☒ Test pressure ☒

General Remarks (State quality of workmanship, opinions as to class, &c.) The workmanship & materials are good. The engines have been built under special survey & shipped to Vancouver.

The amount of Entry Fee .. £ 2 : : When applied for, 17/10/10  
Special .. £ 9 9/- : :  
Donkey Boiler Fee .. £ : : When received, 18/10/10  
Travelling Expenses (if any) £ : :  
Committee's Minute GLASGOW 18 OCT. 1910

Engine Surveyor to Lloyd's Register of British & Foreign Shipping.

TUE. JUL. 25. 1911

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Assigned Transmit to London

Certificate (if required) to be sent to

J.H.H. 17.10.10

n.b.