

## REPORT ON MACHINERY.

No. 22848

Port of Glasgow

Received at London Office

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No. in Survey held at Glasgow Date, first Survey and Last Survey 19<sup>th</sup> May 1900  
 Reg. Book. P.B. "Coxton" (Number of Visits 1)  
 on the P.B. "Coxton" Tons { Gross  
 Master Built at Glasgow By whom built Napier & Co When built 1905-  
 Engines made at Brunel By whom made Port & Co when made 1905-  
 Boilers made at Do By whom made Do when made 1905-  
 Registered Horse Power Owners London County Council Port belonging to London  
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

## ENGINES, &amp;c.—Description of Engines

No. of Cylinders            No. of Cranks             
 Dia. of Cylinders            Length of Stroke            Revs. per minute            Dia. of Screw shaft            as per rule            Material of             
 as fitted            screw shaft             
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube            Is the after end of the liner made water tight  
 in 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  
 liners are fitted, is the shaft lapped or protected between the liners            Length of stern bush             
 Dia. of Tunnel shaft            as per rule            Dia. of Crank shaft journals            as per rule            Dia. of Crank pin            Size of Crank webs            Dia. of thrust shaft under  
 as fitted            collars            Dia. of screw            Pitch of screw            No. of blades            State whether moveable            Total surface             
 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 Engine Room            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             
 What 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            the screw shaft tunnel watertight             
 Is it fitted with a watertight door            worked from           

## BOILERS, &amp;c.—

(Letter for record           )Total Heating Surface of Boilers           Is forced draft fitted           

No. and Description of Boilers            Working Pressure            Tested by hydraulic pressure to             
 Date of test            Can each boiler be worked separately            Area of fire grate in each boiler            No. and Description of safety valves to  
 each boiler            Area of each valve            Pressure to which they are adjusted            Are they fitted with easing gear             
 Smallest distance between boilers or uptakes and bunkers or woodwork            Mean dia. of boilers            Length            Material of shell plates             
 Thickness            Range of tensile strength            Are they welded or flanged            Descrip. of riveting: cir. seams            long. seams             
 Diameter of rivet holes in long. seams            Pitch of rivets            Lap of plates or width of butt straps             
 Per centages of strength of longitudinal joint            Working pressure of shell by rules            Size of manhole in shell             
 Size of compensating ring            No. and Description of Furnaces in each boiler            Material            Outside diameter             
 Length of plain part            Thickness of plates            Description of longitudinal joint            No. of strengthening rings             
 Working pressure of furnace by the rules            Combustion chamber plates: Material            Thickness: Sides            Back            Top            Bottom             
 Pitch of stays to ditto: Sides            Back            Top            If stays are fitted with nuts or riveted heads            Working pressure by rules             
 Material of stays            Diameter at smallest part            Area supported by each stay            Working pressure by rules            End plates in steam space:             
 Material            Thickness            Pitch of stays            How are stays secured            Working pressure by rules            Material of stays             
 Diameter at smallest part            Area supported by each stay            Working pressure by rules            Material of Front plates at bottom             
 Thickness            Material of Lower back plate            Thickness            Greatest pitch of stays            Working pressure of plate by rules             
 Diameter of tubes            Pitch of tubes            Material of tube plates            Thickness: Front            Back            Mean pitch of stays             
 Pitch across wide water spaces            Working pressures by rules            Girders to Chamber tops: Material            Depth and  
 thickness of girder at centre            Length as per rule            Distance apart            Number and pitch of Stays in each             
 Working pressure by rules            Superheater or Steam chest; how connected to boiler            Can the superheater be shut off and the boiler worked  
 separately            Diameter            Length            Thickness of shell plates            Material            Description of longitudinal joint            Diam. of rivet  
 holes            Pitch of rivets            Working pressure of shell by rules            Diameter of flue            Material of flue plates            Thickness             
 If stiffened with rings            Distance between rings            Working pressure by rules            End plates: Thickness            How stayed             
 Working pressure of end plates            Area of safety valves to superheater            Are they fitted with easing gear



**DONKEY BOILER—** No. \_\_\_\_\_ Description \_\_\_\_\_

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 \_\_\_\_\_

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 \_\_\_\_\_ 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,  
 \_\_\_\_\_ Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - }  
 Total No. of visits \_\_\_\_\_

Is the approved plan of main boiler forwarded herewith  
 " " " donkey " " "

**General Remarks** (State quality of workmanship, opinions as to class, &c. \_\_\_\_\_ )

*Cocks and valves examined whilst being fitted and when completed before launching & found satisfactory*

The amount of Entry Fee. . . £ : : When applied for,  
 Special . . . . £ : : 19-  
 Donkey Boiler Fee . . . £ : :  
 Travelling Expenses (if any) £ : : 19-  
 When received,

Committee's Minute Glasgow 5 - JUN 1905  
 Assigned Deferred for completion.

Certificate (if required) to be sent to \_\_\_\_\_  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

*R. M. W. Ward*  
 Engineer (Surveyor to Lloyd's Register of British & Foreign Shipping.