

## REPORT ON MACHINERY.

Port of *Belfast*  
 Received at London Office *19 AUG 1894*  
 Date, first Survey *17/3/04* Last Survey *13/8/1904*  
 Survey held at *Belfast* (Number of Visits *14*)  
 Book. *P.P. Lauica (Canal Boat)*  
 on the *Belfast*  
 Tons } Gross  
 Net  
 When built  
 By whom built  
 When made  
 By whom made  
 When made  
 Owners *J. Moffatt & Co. L<sup>d</sup>*  
 Port belonging to *Dublin*  
 Horse Power as per Section 28  
 Is Electric Light fitted

FINES, &c.—Description of Engines  
 No. of Cylinders  
 No. of Cranks  
 Diameter of Cylinder  
 Length of Stroke  
 Revolutions per minute  
 Diameter of Screw shaft  
 Diameter of Crank shaft journals  
 Diameter of Crank pin  
 Size of Crank webs  
 Pitch of screw  
 No. of blades  
 State whether moveable  
 Total surface  
 Diameter of ditto  
 Stroke  
 Can one be overhauled while the other is at work  
 Diameter of ditto  
 Stroke  
 Can one be overhauled while the other is at work  
 Sizes of Pumps  
 No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Holds, &c.  
 Connected to condenser, or to circulating pump  
 Is a separate donkey suction fitted in Engine room & size  
 Are the roses in Engine room always accessible  
 Are the sluices on Engine room bulkheads always accessible  
 Are they Valves or Cocks  
 Are the discharge pipes above or below the deep water line  
 Are the blow off cocks fitted with a spigot and brass covering plate  
 How are they protected  
 Is the screw shaft tunnel watertight  
 Is forced draft fitted  
 Tested by hydraulic pressure to  
 Area of fire grate in each boiler  
 No. and Description of safety valves to  
 Area of each valve  
 Pressure to which they are adjusted  
 Are they fitted  
 Mean diameter of boiler  
 Description of riveting: circum. seam  
 Lap Single Riv.  
 Lap Double Riv.  
 Pitch of rivets  
 Lap of plates  
 Working pressure of shell by rules  
 Size of manhole in shell  
 No. and Description of Furnaces in each boiler  
 One Adams  
 Outside diameter  
 No. of strengthening rings  
 Description of longitudinal joint  
 Thickness of plates  
 Sides  
 Back  
 Top  
 Bottom  
 Working pressure of plate by rules  
 Material of Front plates at bottom  
 Thickness  
 Greatest pitch of stays  
 Working pressure of plate by rules  
 Material of tube plates  
 Thickness  
 Front  
 Back  
 Mean pitch of stays  
 Working pressure by rules  
 Girders to Chamber tops: Material  
 Thickness  
 Distance apart  
 Number and pitch of Stays in each  
 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  
 Lap Single Riv.  
 Lap Double Riv.  
 Working pressure of shell by rules  
 Diameter of flue  
 Material of flue plates  
 Thickness  
 End plates: Thickness  
 How stayed  
 Area of safety valves to superheater  
 Are they fitted with casing gear



**DONKEY BOILER—** Description

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

tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of safety valves \_\_\_\_\_

Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ If fitted with easing gear \_\_\_\_\_ If steam from main boilers can \_\_\_\_\_

Diameter of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_

Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_

Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of \_\_\_\_\_

Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_

furnace by rules \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_

R. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

J. MOFFATT & Co., LTD.

*James Moffatt* Director

During progress of  
work in shops - -  
During erection on  
board vessel - -  
Total no. of visits

General Remarks (State quality of workmanship, opinions as to class, &c.

of stern bush ✓ Diameter of crank shaft journals as per rule ✓ Diameter of thrust shaft under collars 2

BOILERS—Range of tensile strength 28-32 Are they welded or flanged No DONKEY BOILERS—No. ✓ Range of tensile strength ✓

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

This boiler has been constructed under Special License, in accordance with the Rules, and the Secretary's Letter 25 Jan: 1904. The workmanship and the materials used in its construction, are of satisfactory description; on completion it was tested by hydraulics, to twice the working pressure with good results. It has been forwarded to Dublin, to be fitted in the S.S. *Laurel*; an unclassified vessel, plying on the Dublin Canal.

As this boiler is intended for an unclassified vessel. Submitted no further action is necessary.

*No action*  
*20.8.04*

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The amount of Entry Fee.. £ : : When applied for, 17-8-1904  
Special .. .. £ 3 : 3 :  
Donkey Boiler Fee .. .. £ : :  
Travelling Expenses (if any) £ : : When received, 23/2/05

*R. J. Beveridge*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

*Not for classing Committee*



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