

# REPORT ON BOILERS.

No. 24121  
WED. JAN 9 1907  
TUES. 26 JUN 1906

Port of *Glasgow*

Received at London Office

No. in Survey held at *Barrhead* Date, first Survey *22 Feb 1906* Last Survey *13 June 1906*  
 Reg. Book. *Cammell Laird Nos 25, No 670* (Number of Visits) \_\_\_\_\_  
 on the \_\_\_\_\_ Gross Tons \_\_\_\_\_ Net Tons \_\_\_\_\_  
 Master \_\_\_\_\_ Built at \_\_\_\_\_ By whom built \_\_\_\_\_ When built \_\_\_\_\_  
 Engines made at \_\_\_\_\_ By whom made \_\_\_\_\_ when made \_\_\_\_\_  
 Boilers made at *Barrhead* By whom made *John Cochran No 2046* when made *1906*.  
 Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(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 \_\_\_\_\_  
 No. of Certificate \_\_\_\_\_ 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 \_\_\_\_\_ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 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 the shell plates welded or flanged \_\_\_\_\_  
 Descrip. of riveting: cir. seams \_\_\_\_\_ long. seams \_\_\_\_\_ Diameter of rivet holes in long. seams \_\_\_\_\_ Pitch of rivets \_\_\_\_\_  
 Gap of plates or width of butt straps \_\_\_\_\_ Per centages of strength of longitudinal joint \_\_\_\_\_ Working pressure of shell by plates \_\_\_\_\_  
 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 \_\_\_\_\_  
 Material \_\_\_\_\_ Thickness: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_ Pitch of stays to ditto: Sides \_\_\_\_\_ Back \_\_\_\_\_  
 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 \_\_\_\_\_  
 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 \_\_\_\_\_

**VERTICAL DONKEY BOILER**— No. *1* Description *Vertical (Blade)* Manufacturers of steel *D. Colville*  
 Made at *Barrhead* By whom made *John Cochran* When made *1906* Where fixed \_\_\_\_\_ Working pressure *100 lbs*  
 tested by hydraulic pressure to *200* Date of test *19/6/06* No. of Certificate *8147* Fire grate area *289* Description of safety valves *1 pair (spring)*  
 No. of safety valves *2* Area of each *4.91* 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 *7'-6"* Length *10'-0"* Material of shell plates *steel* Thickness *19/32* Range of tensile strength *28-32* Descrip. of riveting long. seams *double lap* Dia. of rivet holes *1"* Whether punched or drilled *drilled* Pitch of rivets *3 3/8"*  
 Lap of plating *4 5/8"* Per centage of strength of joint \_\_\_\_\_ Rivets *72* Working pressure of shell by rules *110 lbs* Thickness of shell crown plates *19/32*  
 Radius of do. *3'-9"* No. of Stays to do. *none* Dia. of stays \_\_\_\_\_ Diameter of furnace Top *3'-9"* Bottom *6'-7"* Length of furnace *3'-3"*  
 Thickness of furnace plates *3/4"* Description of joint *welded* Working pressure of furnace by rules *100 lbs* Thickness of furnace crown plates *4/16"* Radius of do. *3'-9"* Stayed by *1 plate (stay)* Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_  
 Thickness of water tubes \_\_\_\_\_

The foregoing is a correct description,  
*John Cochran* Manufacturer.

Shipping Dates of Survey while building  
 During progress of work in shops - - - 1906: *Feb 22 April 23. 26. May 1. 3. 14. 17. Jun 5. 13. 19*  
 During erection on board vessel - - - \_\_\_\_\_  
 Total No. of visits *10*

Is the approved plan of main boiler forwarded \_\_\_\_\_  
 " " " donkey " " " " \_\_\_\_\_  
 Lloyd's Register Foundation  
 W1243-0235

GENERAL REMARKS

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

This boiler has been built under special survey, the materials and workmanship are of good description. This boiler has now been forwarded to Messrs Cammell Laird & Co for their order No 670.

No. and Description of Tubes in each boiler		Material of tubes		Working pressure by rules		Material of tube plates		Working pressure by rules		Material of tube plates		Working pressure by rules		Material of tube plates		Working pressure by rules		Material of tube plates		Working pressure by rules		Material of tube plates	
No.	Description	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness	Material	Thickness

Certificate (if required) to be sent to the Registrar of Steamships or to the Registrar of Lighthouses (The Steamships are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee... £ : : When applied for. 25 JUN 1906

Special ... £ 2 : 2 : When received.

Donkey Boiler Fee ... £ : : 1906

Travelling Expenses (if any) £ : : :

A. McKeand  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping

Committee's Minute

Glasgow 25 JUN 1906

Assigned

Transmit to dou dou.



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