

# REPORT ON BOILERS.

No. 25340

THUR. 12 SEP 1907

Received at London Office

Date of writing Report 22 May 1907 When handed in at Local Office 10 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 22 March Last Survey 24 May 1907  
 Reg. Book. S.S. Baltic etc. Number of Visits 11 Gross 30 1/2 August 07  
 on the Donkey boiler for Craig Taylor #605 Tons } Net  
 Master \_\_\_\_\_ Built at \_\_\_\_\_ By whom built \_\_\_\_\_ When built \_\_\_\_\_  
 Engines made at \_\_\_\_\_ By whom made \_\_\_\_\_ when made \_\_\_\_\_  
 Boilers made at \_\_\_\_\_ By whom made \_\_\_\_\_ when made \_\_\_\_\_  
 Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

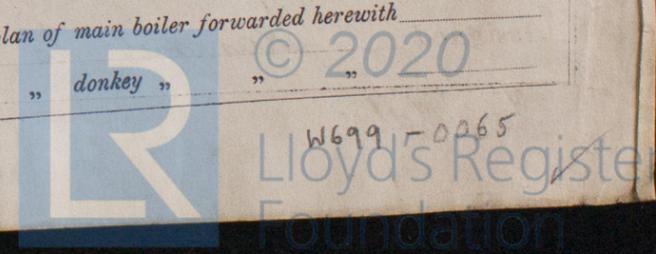
## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(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 \_\_\_\_\_  
 Lap of plates or width of butt straps \_\_\_\_\_ Per centages of strength of longitudinal joint \_\_\_\_\_ rivets \_\_\_\_\_ 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 \_\_\_\_\_

**VERTICAL DONKEY BOILER**— No. 4359 Description Bochran's Manufacturers of steel W. Beardmore #6  
 Made at Annan By whom made Bochran #6 When made 1907 Where fixed Freehold Working pressure 90 lbs  
 tested by hydraulic pressure to 180 Date of test 24/5/07 No. of Certificate 8910 Fire grate area 27 1/2 Description of safety valves Spring loaded  
 No. of safety valves 2 Area of each 5.94 Pressure to which they are adjusted 90 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 6" 6" Length 13" 6" Material of shell plates steel Thickness 1/2" Range of tensile strength 27-32 Descrip. of riveting long. seams double Dia. of rivet holes 27/32 Whether punched or drilled drilled Pitch of rivets 2.66"  
 Lap of plating 4 1/8" Per centage of strength of joint \_\_\_\_\_ Rivets 66.9 Working pressure of shell by rules 100 lbs Thickness of shell crown plates 7/16 + 3/4" Plates 68.1 Radius of do. 3.3" No. of Stays to do. none Dia. of stays \_\_\_\_\_ Diameter of furnace Top 2.9" Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates 9/16" Description of joint riveted Working pressure of furnace by rules 100 lbs Thickness of furnace crown plates 9/16" Radius of do. 2.9" Stayed by \_\_\_\_\_ Diameter of uptake 2 1/2" Thickness of uptake plates 13/16 + 3/32" Thickness of stay tubes 1/4"  
 The foregoing is a correct description,  
 Drawing No. 6067 Manufacturer COCHRAN & CO. ANNAN, LTD.

Dates of Survey { During progress of work in shops - - } 1907 Mar 22 28 Apr 5 11 12 29 May 7 14 24  
 { During erection on board vessel - - - } (Mdb) August 27-28  
 while building { Total No. of visits } 9 (Els) 2 (Mdb)  
 Is the approved plan of main boiler forwarded herewith \_\_\_\_\_  
 " " " donkey " " \_\_\_\_\_

If not, state whether, and when, one will be sent. Is a Report also sent on the Hull of the Ship? (Im. 17—Copyable Ink.)



**GENERAL REMARKS**

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

This boiler has been made under survey, the materials & workmanship are good.

1880

1880

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

The amount of Entry Fee...	£	:	:	When applied for.
Special ... ..	£	:	:	10
Donkey Boiler Fee ...	£	2	:	When received.
Travelling Expenses (if any))	£	:	:	10

*James Hollison & J.W. Dimmock*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *200000* 3 - JUN 1907

FRI. 13 SEP 1907

Assigned *Transmit to Middlesbrough*  
*M.W.M.*

For Mdb.



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