

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 19 07
 Reg. Book. S. S. Balgownie Number of Visits 11 Gross 30 Tons }
 on the Donkey boiler for Craig Taylor & Co. 1605 Net 125
 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 _____ 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 & Co.
 Made at Annan By whom made Bochran & Co. 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 22 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 27-38 Descrip. of riveting long. seams double Dia. of rivet holes 3/4" Whether punched or drilled drilled Pitch of rivets 2 1/2"
 Lap of plating 4' 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"
 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 tubes 2 1/2" Thickness of uptake plates 13/16" + 23/32"
 Thickness of water tubes 1/4" _____
 The foregoing is a correct description,

Drawing No. 6067.

Dates of Survey while building
 During progress of work in shops - - -
 During erection on board vessel - - -
 Total No. of visits 9 (Yls) 2 (Mals)

Is the approved plan of main boiler forwarded herewith

" donkey "

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GENERAL REMARKS

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

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

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 Hollis & J. H. 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*

For Mdb.



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