

## REPORT ON BOILERS.

No. 24521

Received at Local Office  
Date of writing Report 19 When handed in at Local Office 19 Port of Glasgow  
No. in Survey held at Glasgow Date, First Survey 5<sup>th</sup> Oct Last Survey 12<sup>th</sup> Dec 1906  
Reg. Book. on the Ss "Carwociro" ex Chatterton (Number of Visits 2) Tons { Gross 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 bankers 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 plate 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 top bottom Thickness of plates crown bottom  
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 Area 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 Area 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 Steam dome: description of joint to shell % of strength of joint  
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to  
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER— No. 4167 Description Cochran Patent Manufacturers of steel Clydebridge  
Made at Glasgow By whom made Cochran & Co. Annan When made 1906 Where fixed Working pressure 100 lb  
tested by hydraulic pressure to 200 Date of test 12/10/06 No. of Certificate 8357 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 30 Dia. of donkey boiler 6' 6" Length 14' 6" Material of shell plates Steel Thickness 1/2" Range of tensile  
strength 27/32 Descrip. of riveting long. seams double lap Dia. of rivet holes 27/32 Whether punched or drilled drilled Pitch of rivets 2 1/16  
Lap of plating 4' 8" Per centage of strength of joint Rivets 71-1 Plates 67-3 Working pressure of shell by rules 100 Thickness of shell crown plates 7/16  
Radius of do. 3' 3" No. of Stays to do. none Dia. of stays Diameter of furnace Top 2-9 Bottom 5' 6" Length of furnace  
Thickness of furnace plates 5/8 Description of joint Bottom Riveted Working pressure of furnace by rules 115-5 160 Thickness of furnace crown  
plates 5/8 Radius of do. as above Stayed by Diameter of uptake Thickness of uptake plates  
Thickness of water tubes none The foregoing is a correct description,  
Manufacturer.

Dates of Survey { During progress of work in shops - - - 1906. Oct 5. 12.  
while building { During erection on board vessel - - -  
Total No. of visits 2.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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W1454-0154



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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 the Amazon where the vessel has to be used as a coal hulk.

Certificate (if required) to be sent to

The amount of Entry Fee	.. £	:	:	When applied for.
Special	.. .. £	:	:	Monthly
Donkey Boiler Fee	.. .. £	2	2	When required
Travelling Expenses (if any)	£	:	:	19

Committee's Minute . WED. 30 MAR. 1921

Assigned

See minute on Rio 1211

(Sgd) A. M. Keane  
Engineer Surveyor to Lloyd's Register of Shipping

TUE. 23 JAN. 1923

TUE. JUN. 26 1923

FRI. AUG. 31 1923

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