

# REPORT ON BOILERS.

No. 24521

Received at Local Office

date of writing Report 19 1906 When handed in at Local Office 19 1906 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 Sp "Carvociro" 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

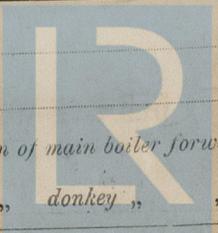
(Letter for record ) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers Working Pressure Tested by hydraulic pressure to Date of test  
 No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to 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 Glyebridge  
 Made at Glasgow By whom made Cochran & Co. Glasgow 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   
 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 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 none 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 lb 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



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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.

Certificates (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 .. .. . £	:	:	Monthly
Donkey Boiler Fee .. .. £	2	2	When required
Travelling Expenses (if any) £	:	:	

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

Committee's Minute . WED. 30 MAR. 1921

Assigned See minute on Rio 1211

FRI. 5 JUL. 1923  
TUE. 23 JAN. 1923  
TUE. JUN. 26 1923  
FRI. AUG. 3 1923

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