

Rpt. 5.

# REPORT ON BOILERS.

No. 22283

Port of Glasgow

Received at London Office

21 NOV 1905

No. in Survey held at  
Reg. Book.

Glasgow

Date first Survey 9<sup>th</sup> Jan

Last Survey 2<sup>nd</sup> Nov 1905

(Number of Visits)

Gross  
Tons  
Net

on the

Built at Port Glasgow By whom built W Hamilton & Co

When built 1905

Master

Engines made at Glasgow

By whom made D. Rowan & Co

when made 1905

Boilers made at do

By whom made do

when made 1905

Registered Horse Power

Owners Bucknall Bros

Port belonging to London

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel Clydebridge Steel Co

(Letter for record (3)) Total Heating Surface of Boilers 1119 sq ft Is forced draft fitted No No. and Description of

Boilers One Single Ended Working Pressure 90 lb Tested by hydraulic pressure to 180 lb Date of test

No. of Certificate 7479 Can each boiler be worked separately Area of fire grate in each boiler 35.3 sq ft No. and Description of

safety valves to each boiler 2 Lockdown Area of each valve 7 sq in Pressure to which they are adjusted 95 lb

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork about 10 in Mean dia. of boilers 11-0 in Length 10-6 in

Material of shell plates steel Thickness 7/8 in Range of tensile strength 28 1/2 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. R. L. long. seams T. R. L. Diameter of rivet holes in long. seams 15/16 in Pitch of rivets 3 3/8 in

Lap of plates or width of butt straps 6 1/2 in Per centages of strength of longitudinal joint rivets 83.4 plate 72.2 Working pressure of shell by

rules 100 lb Size of manhole in shell 16 x 12 in Size of compensating ring 2-7 x 2-3 in No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 3-3 5/8 in Length of plain part top 80 in Thickness of plates crown 9/16 in bottom 109 in 2 7/8 in

Description of longitudinal joint mild No. of strengthening rings none Working pressure of furnace by the rules 100 lb Combustion chamber

plates: Material steel Thickness: Sides 1/2 in Back 1/2 in Top 1/2 in Bottom 7/8 in Pitch of stays to ditto: Sides 9 3/4 x 9 3/4 in Back 9 3/4 x 9 3/4 in

Top 9 3/4 x 9 3/4 in If stays are fitted with nuts or riveted heads mild Working pressure by rules 92 Material of stays steel Diameter at

smallest part .99 in Area supported by each stay 83 sq in Working pressure by rules 95 End plates in steam space: Material steel Thickness 1 in

Pitch of stays 22 1/2 in How are stays secured 8 rivets Working pressure by rules 90 Material of stays steel Diameter at smallest part 4.37 in

Area supported by each stay 500 sq in Working pressure by rules 90 Material of Front plates at bottom steel Thickness 3/32 in Material of

Lower back plate steel Thickness 7/8 in Greatest pitch of stays 14 in Working pressure of plate by rules 95 Diameter of tubes 3 1/4 in

Pitch of tubes 4 1/2 x 4 3/8 in Material of tube plates steel Thickness: Front 23/32 in Back 7/8 in Mean pitch of stays 11 7/8 in Pitch across wide

water spaces 14 in Working pressures by rules 94 lb Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 3/4 x 13/16 x 2 in Length as per rule 29 in Distance apart 8 1/2 in Number and pitch of Stays in each 2-9 3/4 in

Working pressure by rules 100 Superheater or Steam chest: how connected to boiler none 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. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate 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 Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description of Donkey Boiler

David Rowan Manufacturer.

Dates of Survey while building  
During progress of work in shops --  
During erection on board vessel ---  
Total No. of visits

See accompanying report

Is the approved plan of main boiler forwarded herewith

donkey " " "

W643-0153

Lloyd's Register Foundation



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

This boiler has been constructed under Special Survey & is of good materials & workmanship. It has been fitted on board as stated Rph. 4.

**VESS**

These particulars

Signal Letters (if any)

Official Number.

120625

No., Date, and Port of Pr

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged

Stern

Build

Galleries

Head

Framework and descrip

vessel

Number of Bulkheads

Number of water ballas and their capacity in

Total to quarter the dep at side amidships to l

No. of Engines.

Description

Engines.

One Set.

Triple Expan

Boilers.

Number

Iron or Steel

Pressure when loa

GROSS T

Under Tonnage Deck

Closed-in spaces above th

Space or spaces betw

Poop

Forecastle wing

Round House

Other closed-in space

Exces

Spaces for machinery, a Section 78 (2) of the 1894, if required.

Gross Tonnage

Deductions, as per Con

Registered To

Name of Mast

No. of Owners

Name, Residence, and

Buck

Edward Llo

Note. The only spa

deck not incl

contents form

registered ton

Dated 27.0

W B & L (830)-20917-

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

Committee's Minute

Glasgow 20 NOV 1905

Assigned See accompanying report.

H. Gardner-Smith.  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 18 MAY 1906

TUES 31 JUL 1906

TUES. 11 SEP 1906

FRI. NOV 16 1906

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