

Rpt. 5.

REPORT ON BOILERS.

No. 22283

Port of Glasgow

Received at London Office 21 NOV 1905

No. in Survey held at Glasgow
Reg. Book.

Date first Survey 9th Jan'y

Last Survey 2nd Nov 1905

on the

J.S. "Matopps"

Gross Tons
Net

Master

Built at Port Glasgow By whom built W Hamilton & Co When built 1905

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 Glydebridge St. Co

(Letter for record (5)) Total Heating Surface of Boilers 1119 Is forced draft fitted no No. and Description of Boilers One Single Ended Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test

No. of Certificate 7479 Can each boiler be worked separately no Area of fire grate in each boiler 35.3 No. and Description of safety valves to each boiler 2 Lockdown Area of each valve 7" Pressure to which they are adjusted 95 lbs

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" Mean dia. of boilers 11'-0" Length 10'-6"

Material of shell plates steel Thickness 7/8" 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" Pitch of rivets 3 3/4"

Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 83.4 Working pressure of shell by rules 100 lbs Size of manhole in shell 16" x 12" Size of compensating ring 2'-7" x 2'-3" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3'-3 5/8" Length of plain part 80" Thickness of plates crown 9/16" bottom 9/16" x 7/8"

Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 100 lbs Combustion chamber plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 7/8" Pitch of stays to ditto: Sides 9 3/4" x 9" Back 9 3/4" x 9"

Top 9 3/4" x 8 1/2" If stays are fitted with nuts or riveted heads none Working pressure by rules 92 Material of stays steel Diameter at smallest part 1.09 Area supported by each stay 83" Working pressure by rules 95 End plates in steam space: Material steel Thickness 1"

Pitch of stays 22 1/2" How are stays secured by nuts Working pressure by rules 90 Material of stays steel Diameter at smallest part 1.37

Area supported by each stay 500" Working pressure by rules 90 lbs Material of Front plates at bottom steel Thickness 3/32" Material of Lower back plate steel Thickness 7/8" Greatest pitch of stays 14" Working pressure of plate by rules 95 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 2 3/32" Back 7/8" Mean pitch of stays 11 5/8" Pitch across wide water spaces 14" Working pressures by rules 94 lbs Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6 3/4" x 13/16" x 2 Length as per rule 29" Distance apart 8 1/2" Number and pitch of Stays in each 2-9 3/4"

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

holes: Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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	
strength	Descrip. of riveting long. seams	Dia. of rivet holes	Whether punched or drilled	Thickness	Range of tensile
Lap of plating	Per centage of strength of joint	Rivets Plates	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

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 de

at side amidships to

No. of Engines.

Description

Engines.

One Triple

Set. Expan

Boilers.

Number

Iron or Steel

Pressure when loa

GROSS T

Under Tonnage Deck

Closed-in spaces above th

Space or spaces betwe

Poop

Forecastle

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 Slo

Note. The only spa

deck not incl

contents formi

registered ton

Dated 27.

TUES 31 JUL 1906

TUES. 11 SEP 1906

FRI. NOV 16 1906

Lloyd's Register

Foundation

W B & L (830)-20917

Certificate (if required) to be sent to

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

Glasgow 20 NOV 1905

FRI. 18 MAY 1906

Committee's Minute

Assigned See accompanying report.

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

