

Rpt. 5.

REPORT ON BOILERS.

No. 24121

WED. JAN 9 1907
TUES. 26 JUN 1906Port of *Glasgow*

Received at London Office

No. in Survey held at *Barrhead*Date, first Survey *22 Feb*Last Survey *13 June 1906*

Reg. Book.

on the *Cammell Laird Vols 25 No 679*

(Number of Visits)

Gross

Tons

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

when made

Boilers made at *Barrhead*By whom made *John Cochran No 2046*when made *1906*

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

Gap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by

plate

Boilers

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

p

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

Each 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. 1

Description

Vertical (Blaki)

Manufacturers of steel

*D. Colville*Made at *Barrhead*By whom made *John Cochran*When made *1906*

Where fixed

Working pressure *100 lbs*tested by hydraulic pressure to *200*Date of test *19/6/06*No. of Certificate *847*Fire grate area *289*Description of safety valves *1 pair (spring)*No. of safety valves *2*Area of each *4' 9"*

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 *7' 6"*Length *16' 0"*Material of shell plates *steel*Thickness *3/32"*

Range of tensile

strength *28-32*Descrip. of riveting long. seams *double lap*Dia. of rivet holes *1"*Whether punched or drilled *drilled*Pitch of rivets *3 3/8"*Lap of plating *4 3/8"*

Per centage of strength of joint

Rivets *72*Working pressure of shell by rules *110 lbs*Thickness of shell crown plates *1/32"*Radius of do. *3' 9"*No. of Stays to do. *none*

Dia. of stays

Diameter of furnace Top *3' 9"*Bottom *6' 7"*Length of furnace *3' 3"*Thickness of furnace plates *3/16"*Description of joint *welded*Working pressure of furnace by rules *100 lbs*

Thickness of furnace crown

plates *4/16"*Radius of do. *3' 9"*Stayed by *1 plate stay*

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

John Cochran

Manufacturer.

Shipping

Dates of Survey

while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

1906: Feb 22 April 23 26 May 1 3 14 17 Jun 5 13 19

Is the approved plan of main boiler forwarded

donkey

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W1243-0235

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 Messrs Cammell Laird & Co for their order No 670.

Table with multiple columns and rows, containing technical specifications and measurements. The text is mirrored and difficult to read due to the image quality.

Certificate (if required) to be sent to

The amount of Entry Fee...
Special ...
Donkey Boiler Fee ...
Travelling Expenses (if any)...

When applied for...
25 JUN 1906
When received...
1906

A. M. McLeod
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping

Committee's Minute

Glasgow 25 JUN 1906

Assigned

Transmit to London.



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