

REPORT ON MACHINERY.

Port of Glasgow

MON. FEB 17 1896

Received at London Office

Date, first Survey 2nd Sept.Last Survey 9th Oct. 1895(Number of Visits 14)Survey held at Glasgowon the Twin screw Steamer "Laura Todd"Built at Port GlasgowBy whom built Russell & CoTons 112When built 1896Made at GlasgowBy whom made John & Kincaid & Co.when made 1896Made at GlasgowBy whom made Lindsay Burnet & Cowhen made 1895-12Horse Power 85Owners Amazon S. N. Co. (Lim^d)Port belonging to Para.Horse Power as per Section 28 78

Description of Engines

ES, &c.—

No. of Cylinders _____

Length of Stroke _____

Revolutions per minute _____

Diameter of Screw shaft _____

Diameter of Crank shaft journals _____

Diameter of Crank pin _____

Pitch of screw _____

No. of blades _____

State whether moveable _____

Total surface _____

Can one be overhauled while the other is at work _____

Can one be overhauled while the other is at work _____

No. and size of Suctions connected to both Bilge and Donkey pumps _____

In Holds, &c. _____

Is a separate donkey suction fitted in Engine room & size _____

Are the roses in Engine room always accessible _____

Are the sluices on Engine room bulkheads always accessible _____

Are they Valves or Cocks _____

Are the discharge pipes above or below the deep water line _____

Are the blow off cocks fitted with a spigot and brass covering plate _____

How are they protected _____

Are the cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times _____

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges _____

Is the screw shaft tunnel watertight _____

worked from _____

ES, &c.— (Letter for record S)

Total Heating Surface of Boilers 1404

Description of Boilers one cylindrical multitubular Working Pressure 160 Tested by hydraulic pressure to 320

Can each boiler be worked separately _____

Area of fire grate in each boiler 39.8

No. and Description of safety valves to _____

Area of each valve 4.9

Pressure to which they are adjusted 16.3

Are they fitted _____

Smallest distance between boilers or uptakes and bunkers or woodwork 8"

Mean diameter of boilers 13'-0"

Material of shell plates Steel Thickness 1/16"

Description of riveting: circum. seams double rivet lap long. seams treble rivet butt

Pitch of rivets 7/16"

Lap of plates or width of butt straps 15 3/8" x 3 1/32"

Working pressure of shell by rules 164

Size of manhole in shell 16" x 12"

No. and Description of Furnaces in each boiler two Fox's Material Steel Outside diameter 47 1/2"

Thickness of plates 1 1/32" Description of longitudinal joint welded

No. of strengthening rings corrugated

Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4"

Working pressure by rules 162

Material of stays Steel Thickness 1" Pitch of stays 19 1/2"

How are stays secured double nuts and

Working pressure by rules 161

Material of stays Steel

Working pressure by rules 164

Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 1 1/4"

Greatest pitch of stays 17 7/8"

Working pressure of plate by rules 212

Material of tube plates Steel Thickness: Front 7/8" Back 13/16"

Mean pitch of stays 14 1/4"

Working pressures by rules 212

Girders to Chamber tops: Material Iron Depth and _____

Number and pitch of Stays in each two 9/8"

Can the superheater be shut off and the boiler worked _____

Material of flue plates _____

Thickness _____

End plates: Thickness _____

How stayed _____

Area of safety valves to superheater _____

Are they fitted with easing gear _____

DONKEY BOILER—

Description

Made at

By whom made

Working pressure

tested by hydraulic pressure to

No. of Certificate

When made

Where fixed

No. of safety valves

Area of each

Pressure to which they are adjusted

Fire grate area

Description of safety valves

enter the donkey boiler

Diameter of donkey boiler

Length

If fitted with easing gear

If steam from main

Description of riveting long. seams

Material of shell plates

Thickness

Lap of plating

Per centage of strength of joint

Rivets

Diameter of rivet holes

Whether punched or drilled

Pitch of rivets

Dia. of stays.

Diameter of furnace Top

Bottom

Thickness of shell crown plates

Radius of do.

No. of Stays to do

joint

Thickness of furnace crown plates

Length of furnace

Thickness of furnace plates

Stayed by

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Working pressure of shell by rule

SPARE GEAR. State the articles supplied:—

Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

John G. Muncie & Co

General Remarks

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

This boiler has been built under the usual conditions of special survey. The material and workmanship is of good quality, and was satisfactorily tested by hydraulic pressure to 320 lbs per square inch.

It is being forward to Grumek to be fitted on board this vessel.

Approved tracing forwarded herewith.

Certificate (if required) to be sent to

J. Muncie

The amount of Entry Fee.. £

1

:

When applied for,

Special

11

:

10.7.18

Donkey Boiler Fee

11

:

When received,

Travelling Expenses (if any) £

11

:

8.7.18

Committee's Minute

TUES. FEB 18 1896

Assigned

George Murdoch
Engineer Surveyor to Lloyd's Register of British & Foreign Ships



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Foundation