

REPORT ON MACHINERY.

Port of Glasgow

Received at London Office MON. FEB 17 1896

Survey held at Glasgow

Date, first Survey 2nd Sept.

Last Survey 9th Oct. 1895

(Number of Visits 14)

on the Twin screw Steamer "Laura Bodie"

Tons } Gross 117
Net 111

built at Port Glasgow By whom built Russell & Co

When built 1896

made at Greenock By whom made John & Kincaid & Co.

when made 1896

made at Glasgow By whom made Lindsay Burnet & Co

when made 1895-12

Horse Power 85

Owners Amazon S. N. Coy (Lim^d)

Port belonging to Para.

Horse Power as per Section 28 78

ES, &c.— Description of Engines

No. of Cylinders _____

Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft as per rule _____ as fitted _____

Diameter of Crank shaft journals _____ Diameter of Crank pin _____ Size of Crank webs _____

Pitch of screw _____ No. of blades _____ State whether moveable _____ Total surface _____

Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

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

In Holds, &c. _____

Connected to condenser, or to circulating pump _____ 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 _____

ES, &c.— (Letter for record S)

Total Heating Surface of Boilers 1404
1389-3

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

Can each boiler be worked separately Yes Area of fire grate in each boiler 39.8 No. and Description of safety valves to two direct spring

Area of each valve 4.9 Pressure to which they are adjusted 16.3 lbs Are they fitted Yes

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 Corrugation

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 Diameter at smallest part 2.030 Area supported by each stay 390 Working pressure by rules 164 Material of Front plates at bottom Steel

Thickness 1" Pitch of stays 19 1/2" How are stays secured double nuts and doubling Working pressure by rules 161 Material of stays Steel

Area supported by each stay 390 Working pressure by rules 164 Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 1 1/16" 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 _____

Length as per rule 29 1/4" Distance apart 9 1/8" Number and pitch of Stays in each two 9 1/8"

Superheater or Steam chest; how connected to boiler none. Can the superheater be shut off and the boiler worked _____

Material of flue plates _____ Thickness _____

Working pressure by rules _____ Diameter of flue _____

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 _____ Diameter of rivet holes _____ Material of shell plates _____ Thickness _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ 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 _____
 Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Mildred Burnett & Co Manufacturer.

John G. Murchie & 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 Greenock to be fitted on board this vessel.
 Approved tracing forwarded herewith.

The Surveyors are requested not to write on or below the space for Committee's Minute.

Certificate (if required) to be sent to *Greenock*

The amount of Entry Fee..	£	1	:	0	:	0		When applied for,	
Special	£	11	:	14	:	0		10.7.18	
Donkey Boiler Fee	£	"	:	"	:	"			
Travelling Expenses (if any)	£	"	:	"	:	"		When received,	
								5.7.18	

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

Committee's Minute **TUES. FEB 18 1896**

Assigned _____

