

REPORT ON MACHINERY.

14583

SAT. AUG 1 1896

Port of *Glasgow*

Received at London Office 18

No. in Survey held at *Glasgow* Date, first Survey *16 Sept. 1895* Last Survey *July 31st 1896*
 Reg. Book. *"* (Number of Visits *4*)
 on the *Screw Steamer "Simcoe Castle"* Tons Gross *3958* Net *3428*
 Master *J. G. Robinson* Built at *Glasgow* By whom built *Fairfield & Co. Ltd.* When built *1896*
 Engines made at *Glasgow* By whom made *"* when made *1896*
 Boilers made at *"* By whom made *"* when made *1896*
 Registered Horse Power *1300* Owners *Castle Mail Packet Co. Ltd.* Port belonging to *Glasgow*
 Horse Power as per Section 28 *1108.2*

S, &c. — Description of Engines *Triple* No. of Cylinders *Three*
 of Cylinders *38" 62 1/2 102"* Length of Stroke *66"* Revolutions per minute *45* Diameter of Screw shaft as per rule *18 1/2"*
 of Tunnel shaft as fitted *19 1/4"* Diameter of Crank shaft journals *20 1/2"* Diameter of Crank pin *21"* Size of Crank webs *15" x 39"*
 of screw *19 1/2"* Pitch of screw *24 1/2"* No. of blades *4* State whether moveable *Yes* Total surface *118 ft*
 ed pumps *"* Diameter of ditto *"* Stroke *"* Can one be overhauled while the other is at work *Yes*
 Bilge pumps *Two* Diameter of ditto *6"* Stroke *30 1/2"* Can one be overhauled while the other is at work *Yes*
 Donkey Engines *2* Sizes of Pumps *10" x 6" x 10" Duplex* No. and size of Suctions connected to both Bilge and Donkey pumps
 ne Room *4-8 1/2"* *12" x 16" x 12" Double Hold &c. Ballast* *72 in each hold 8 1/2"*
 Small well *8 1/2"* *14" x 7 1/4" x 12" Duplex Boiler circulating*

PARTICULARS — Bilge injections *2* sizes *18"* Connected to *main pump* to circulating pump *"* Is a separate donkey suction fitted in Engine room & size *Yes 6 1/2"*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*
 Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Both*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *Yes* Are the discharge pipes above or below the deep water line *Heads and line*
 Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes* Are the blow off cocks fitted with a spigot and brass covering plate *Yes*
 What pipes are carried through the bunkers *pipes* How are they protected *By wood casing*
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock *On ship before launching* Is the screw shaft tunnel watertight *Apparently*
 Is it fitted with a watertight door *Yes* worked from *Upper platform*

BOILERS, &c. — (Letter for record *0*) Total Heating Surface of Boilers *27354 ft*
 No. and Description of Boilers *Two Multitubular* Working Pressure *142 lbs* Tested by hydraulic pressure to *840*
 Date of test *Jan. 1896* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *Total 585 ft* No. and Description of safety valves to
 each boiler *Direct Spring* Area of each valve *9.62" S.E.* Pressure to which they are adjusted *142 lbs* Are they fitted
 with easing gear *Yes* Smallest distance between boilers or uptakes and bunkers or woodwork *11"* Mean diameter of boilers *15.3" S.E.*
 Length *19.2" S.E.* Material of shell plates *Steel 19 1/2" S.E.* Thickness *1 1/2"* Description of riveting *circum. seams Double rivet + long. seams Double traps*
 Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *10" S.E.* Lap of plates or width of butt straps *14 1/2" x 1 1/4" S.E.*
 Per centages of strength of longitudinal joint *85%* Working pressure of shell by rules *142 lbs* Size of manhole in *16" x 12" S.E.*
 Size of compensating rings *Stamped* No. and Description of Furnaces in each boiler *Two S.E.* Material *Steel* Outside diameter *8.8" S.E.*
 Length of plain part *4 1/2" tubes* Thickness of plates *9 1/6" S.E.* Description of longitudinal joint *Welded* No. of strengthening rings *1*
 Working pressure of furnace by the rules *144 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *9 1/6"* Back *9 1/6"* Top *9 1/6"* Bottom *8"*
 Pitch of stays to ditto: Sides *4 1/4" x 4 1/2"* Back *4 1/2" x 4 1/2"* Top *4 1/2" x 4 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *182 lbs*
 Material of stays *Steel* Diameter at smallest part *1 3/8"* Area supported by each stay *58"* Working pressure by rules *142 lbs* End plates in steam space:
 Material *Steel* Thickness *19 1/2"* Pitch of stays *15"* How are stays secured *into plates* Working pressure by rules *238 lbs* Material of stays *Iron*
 Diameter at smallest part *4.64" area* Area supported by each stay *225"* Working pressure by rules *255 lbs* Material of Front plates at bottom *Steel*
 Thickness *12"* Material of lower back plate *Steel* Thickness *10 1/6" S.E.* Greatest pitch of stays *11 1/2" S.E.* Working pressure of plate by rules *230 lbs*
 Diameter of tubes *8 1/4"* Pitch of tubes *4 1/2" x 4 1/4"* Material of tube plates *Steel* Thickness: Front *1 1/2" x 10 1/6"* Back *1 1/2"* Mean pitch of stays *10" about*
 Pitch across wide water spaces *14 1/2"* Working pressures by rules *199 + 194 lbs* Girders to Chamber tops: Material *Iron* Depth and
 thickness of girder at centre *4 1/2" x 14 1/8"* Length as per rule *2.15"* Distance apart *49 1/4"* Number and pitch of Stays in each *2 - 4 1/2"*
 Working pressure by rules *199 lbs* 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 *"*

If not, state whether

[142]-L.R.

14583 gls.

DONKEY BOILER—

Description

Donkey Boiler

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 *✓* Diameter of donkey boiler *✓* Length *✓* Material of shell plates *✓* Thickness *✓*
Description of riveting long. seams *✓* Diameter of rivet holes *✓* Whether punched or drilled *✓* Pitch of rivets *✓*
Lap of plating *✓* Per centage of strength of joint *✓* Rivets *✓* 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 *✓* Thickness of furnace crown plates *✓* Stayed by *✓* Working pressure of shell by rules *✓*
Working pressure of furnace by rules *✓* Diameter of uptake *✓* Thickness of uptake plates *✓* Thickness of water tubes *✓*

SPARE GEAR. State the articles supplied:

*One propeller shaft with chain complete, 1 prop. 1 blade
1 cross bar, 1 guide shoe, 1 set cross bar, 1 pair crank pin brace, 8 coupling
bolts, 2 main bearing bolts, 1 stern bush complete, 1 set pins for each piston, 1 assortment
of springs, bolts, nuts & other gear*

The foregoing is a correct description,

THE FAIRFIELD SHIPBUILDING
AND ENGINEERING CO., LIMITED
MANUFACTURER

SECRETARY

General Remarks

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

Three Engines & Boilers

*are of good material & workmanship and are now in
good order & safe working condition & eligible in my
opinion to be noted in the Register Book.*

It is submitted that
this vessel is eligible for
THE RECORD.

LMC. 7.96

ES
1.8.96

MS.
1.8.96

Certificate (if required) to be sent to

Glasgow

The amount of Entry Fee..

£ 3 : " : "

When applied for,

Special

£ 44 : 18 : "

30/4/96

Donkey Boiler Fee

£ " : " : "

When received,

Travelling Expenses (if any)

£ " : " : "

4/5/96

Committee's Minute

Assigned

+ 2 m. exp. 96

James Morrison pro se & John Sanderson
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Clyde District



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Foundation