

# REPORT ON MACHINERY

TUES. SEP 18 1900

Port of *Glasgow*

Received at London Office

18

No. in Survey held at *Paisley*  
g. Book. *S S Florida.*  
on the *G. Maccari*

Date, first Survey *24 May '99* Last Survey *3 August 1900*  
(Number of Visits *28*)

Tons { Gross *3315.*  
Net *2159.*  
When built *1900*

By whom made *J. G. Mincaid & Co.*  
By whom made *D. F. Craig & Co Ltd*

when made *1900*  
when made *1899.*

Registered Horse Power *291* Owners *E. G. Law, G. G. Linnich & Co* Port belonging to *Lussini & Co*  
Is Refrigerating Machinery fitted *no* Is Electric Light fitted *no*

GINES, &c.—Description of Engines  
No. of Cylinders  
No. of Cranks  
Length of Stroke  
Revs. per minute  
Dia. of Screw shaft  
Dia. of Crank shaft journals  
Dia. of Crank pin  
Size of Crank webs  
Dia. of thrust shaft under  
Dia. of screw  
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  
all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times  
the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges  
when were stern tube, propeller, screw shaft, and all connections examined in dry dock  
Is the screw shaft tunnel watertight

Boilers, &c.— (Letter for record *S*) Total Heating Surface of Boilers *540 sq ft* Is forced draft fitted *no*  
and Description of Boilers *One, Single Ended* Working Pressure *80 lbs* Tested by hydraulic pressure to *160 lbs*  
Can each boiler be worked separately *✓* Area of fire grate in each boiler *23 sq ft* No. and Description of safety valves to *2*  
Area of each valve *4.9 sq ft* Pressure to which they are adjusted *80 lbs* Are they fitted with easing gear *yes*  
Mean dia. of boiler *9'-0"* Length *8'-0"* Material of shell plates *Steel*  
Range of tensile strength *29/32* Are they welded or flanged *Neither* Descrip. of riveting: cir. seam *Double R Lap* long. seam *Double R Butt*  
Pitch of rivets *3'-26"* Lap of plates *7'-5"* width of butt straps *7'-5"*  
Working pressure of shell by rules *88 lbs* Size of manhole in shell *16" x 12"*  
No. and Description of Furnaces in each boiler *Two, plain* Material *Steel* Outside diameter *32"*  
Thickness of plates *1/2"* Description of longitudinal joint *Welded* No. of strengthening rings *None*  
Combustion chamber plates: Material *Steel* Thickness: Sides *1/2"* Back *1/2"* Top *1/2"* Bottom *1/2"*  
Working pressure by rules *85 lbs*  
Material of stays *Steel* Diameter at smallest part *9/16"* Area supported by each stay *90 sq in* Working pressure by rules *87* End plates in steam space: *Steel*  
Pitch of stays *16" x 14"* How are stays secured *Double nuts* Working pressure by rules *127 lbs* Material of stays *Steel*  
Area supported by each stay *224 sq in* Working pressure by rules *103* Material of Front plates at bottom *Steel*  
Material of Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *9 1/2"* Working pressure of plate by rules *211*  
Pitch of tubes *4 1/8"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *2 1/32"* Mean pitch of stays *11 3/8"*  
Working pressures by rules *84 lbs* Girders to Chamber tops: Material *Steel* Depth and *Two, 8"*  
Length as per rule *23"* Distance apart *8 1/2"* Number and pitch of Stays in each *Two, 8"*  
Superheater or Steam chest; how connected to boiler *None.* Can the superheater be shut off and the boiler worked *no*



DONKEY BOILER—

No. *One* Description *See other side.*

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 \_\_\_\_\_  
enter the donkey boiler \_\_\_\_\_ Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of ten \_\_\_\_\_ No. in \_\_\_\_\_  
strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_ Dia. 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 \_\_\_\_\_  
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:—

The foregoing is a correct description,  
Manufacturer.

A. F. ORAID & CO., LD.

Archde Vann  
Secretary

Dates of Survey while building { During progress of work in shops - 1899: May. 24. 26. Jun. 1. 19. 28. July. 18. Aug. 7. Sep. 6. 22. Oct. 3. 11. 18. 24. 26. Nov. 1. 7. 9.  
During erection on board vessel - 28. Dec. 1. 8. 14. 20. 1900: Jan. 11. Mar. 6. Apr. 5. Aug. 1. 3.  
Total No. of visits 28.

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_  
" " " donkey " " " yes.

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

*This boiler has been built under special survey, the materials and workmanship being of good quality. It has been forwarded to Greenock to be fitted on board the S.S. Florida.*

The amount of Entry Fee. . . £ : : When applied for, 24/87 200  
Special . . . . £ : : 19/00  
Donkey Boiler Fee . . . £ 2 : 2 : When received, 19/00  
Travelling Expenses (if any) £ : : 18/00

Committee's Minute Glasgow. 17 SEP. 1900

Assigned See Gen. report No 12790.

George Hurdock.  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Lloyd's Register Foundation