

REPORT ON MACHINERY.

Port of *Greenock.*

Received at London Office *18*

WED. 8 SEP 1897

No. in Survey held at *Greenock* Date, first Survey *23rd May 1896* Last Survey *26th August 1897*
 Reg. Book. *140* on the *Screw Steamer "Egypt"* (Number of Visits *128*)
 Master *R. F. Briscoe* Built at *Greenock* By whom built *Baird & Co. (Lim^d)* Tons { Gross *4112* Net *4149*
 Engines made at *Greenock* By whom made *Baird & Co. (Lim^d)* when made *1897.*
 Boilers made at *do* By whom made *do do* when made *1897.*
 Registered Horse Power *2500* Owners *Peninsular & Oriental S.N. Coy.* Port belonging to *Greenock*
 Nom. Horse Power as per Section 28 *1355* Is Electric Light fitted *yes*

ENGINES, &c.—Description of Engines No. of Cylinders No. of Cranks
 Diameter of Cylinders Length of Stroke Revolutions per minute Diameter of Screw shaft as per rule as fitted.
 Diameter of Tunnel shaft as per rule as fitted Diameter of Crank shaft journals Diameter of Crank pin Size of Crank webs
 Diameter of screw Pitch of screw No. of blades State whether moveable Total surface
 No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room In Holds, &c.
 No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
 Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line
 Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate
 What pipes are carried through the bunkers How are they protected
 Are all pipes, 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
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight
 Is it fitted with a watertight door worked from *Donkey Boiler.*

BOILERS, &c.— (Letter for record *S*) Total Heating Surface of Boilers *1671* Is forced draft fitted *no*
 No. and Description of Boilers *One cylindrical multitubular* Working Pressure *170 lbs* Tested by hydraulic pressure to *340 lbs*
 Date of test *30.4.97* Can each boiler be worked separately *no* Area of fire grate in each boiler *52.5* No. and Description of safety valves to each boiler *Two direct spring.* Area of each valve *5.94* Pressure to which they are adjusted *170 lbs* Are they fitted with easing gear *yes* Smallest distance between boilers or uptakes and bunkers or woodwork *23"* Mean diameter of boilers *14.3"*
 Length *10.6* Material of shell plates *Steel* Thickness *1 3/32* Description of riveting: circum. seams *Lap double straddle, long. seams 2 1/2 straps straddle.*
 Diameter of rivet holes in long. seams *1 5/16* Pitch of rivets *8 1/2 & 4 1/4* Lap of plates or width of butt straps *19"*
 Per centages of strength of longitudinal joint rivets *92.* Working pressure of shell by rules *182.8 lbs* Size of manhole in shell *16" x 12"*
 Size of compensating ring *28" x 132"* No. and Description of Furnaces in each boiler *None visible.* Material: *Steel* Outside diameter *43"*
 Length of plain part top *2" between ribs.* Thickness of plates crown *3 1/2"* Description of longitudinal joint *Welded.* No. of strengthening rings *1 in bottom.*
 Working pressure of furnace by the rules *175 lbs* Combustion chamber plates: Material: *Steel* Thickness: Sides *9/16* Back *7/16* Top *3/16* Bottom *1/16*
 Pitch of stays to ditto: Sides *7 1/2 x 7 1/2* Back *8 x 8* Top *8 x 8 1/2* If stays are fitted with nuts or riveted heads *nuts, except bare.* Working pressure by rules *170 to 250 lbs*
 Material of stays *Steel* Diameter at smallest part *1 3/8* Area supported by each stay *584.76* Working pressure by rules *175 to 200* End plates in steam space: Material *Steel* Thickness *1 1/2* Pitch of stays *17 x 16* How are stays secured *Double nuts* Working pressure by rules *172 lbs* Material of stays *Steel & iron.*
 Diameter at smallest part *2 5/8* Area supported by each stay *272* Working pressure by rules *183 lbs* Material of Front plates at bottom *Steel*
 Thickness *1 3/16* Material of Lower back plate *Steel* Thickness *1 1/2* Greatest pitch of stays *11"* Working pressure of plate by rules *188 lbs*
 Diameter of tubes *3 1/2* Pitch of tubes *4 3/4 x 4 3/4* Material of tube plates *Steel* Thickness: Front *3/4* Back *13/16* Mean pitch of stays *11.87 & 9 1/2*
 Pitch across wide water spaces *15"* Working pressures by rules *179 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 1/2 x 4 double* Length as per rule *31"* Distance apart *8.8 1/2 x 9"* Number and pitch of Stays in each *Two 9"*
 Working pressure by rules *174 lbs* Superheater or Steam chest; how connected to boiler *no* Can the superheater be shut off and the boiler worked separately *no*
 Diameter *no* Length *no* Thickness of shell plates *no* Material *no* Description of longitudinal joint *no* Diam. of rivet holes *no* Pitch of rivets *no* Working pressure of shell by rules *no* Diameter of flue *no* Material of flue plates *no* Thickness *no*
 If stiffened with rings *no* Distance between rings *no* Working pressure by rules *no* End plates: Thickness *no* How stayed *no*
 Working pressure of end plates *no* Area of safety valves to superheater *no* Are they fitted with easing gear *no*

Is a Report at No. of state in

GRK 338-0222

Lloyd's Register Foundation

DONKEY BOILER— 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 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:—

The foregoing is a correct description,
 FOR GAIRD AND COMPANY, LIMITED,
 Manufacturer.

M. Macintosh

Dates of Survey while building

During progress of work in shops - -	SECRETARY	
		During erection on board vessel - -
		Total No. of visits

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

Certificate (if required) to be sent to _____

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	:	:18.....
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:18.....

C. A. G. Heron.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Glenoch District

Committee's Minute FRI. 10 SEP 1897

Assigned



Lloyd's Register Foundation