

REPORT ON MACHINERY.

SAT. 2 APR 1898

Port of Greenock

Received at London Office 18

Survey held at Greenock Date, first Survey 23rd May 1896 Last Survey 30th March 1898

(Number of Visits 196)

from main in the Screw Steamer "Arabia" Tons { Gross 7902.80
 Thickness L. Parfitt Built at Greenock By whom built Baird & Co. (Lim^d) Net 4167.30
 Pitch of Greenock When built 1897
 Stays to Greenock By whom made Baird & Co. (Lim^d) when made 1897
 D do By whom made do when made 1897
 Shell by rule do Owners Peninsular & Oriental S.S. Coy. Port belonging to Greenock
 Horse Power 2500 Is Electric Light fitted Yes
 Power as per Section 28 1355

ES, &c. — Description of Engines

No. of Cylinders _____ No. of Cranks _____

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 _____
 as per rule _____ as fitted _____

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 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 _____

ERS, &c. — (Letter for record S) Total Heating Surface of Boilers _____ Is forced draft fitted Yes

Description of Boilers Three Cylindrical Multitubular Working Pressure 170 lbs Tested by hydraulic pressure to 340 lbs

Area of fire grate in each boiler 59 sq ft No. and Description of safety valves to _____

Area of each valve 8.94 sq ft Pressure to which they are adjusted 175 lbs Are they fitted _____

Smallest distance between boilers or uptakes and bunkers or woodwork 22" Mean diameter of boilers 15.3"

Material of shell plates Steel Thickness 1 1/2" Description of riveting: circum. seams Lap double butted Long. seams Double butted

Pitch of rivets 8 3/4 x 4 3/8" Lap of plates or width of butt straps 20" straps

Working pressure of shell by rules 170 lbs Size of manhole in shell 16" x 12"

No. and Description of Furnaces in each boiler Three suspension Material Steel Outside diameter 47"

Thickness of plates 3 1/2" Description of longitudinal joint welded No. of strengthening rings Four

Material Steel Thickness: Sides 7/16" Back 9/16" Top 3/16" Bottom 1/16"

Area supported by each stay 52 to 78 sq in Working pressure by rules 187 to 222 lbs End plates in steam space: _____

Material of Front plates at bottom Steel

Greatest pitch of stays 11 1/2" Working pressure of plate by rules 172 lbs

Material of tube plates Steel Thickness: Front 3/16" Back 3/16" Mean pitch of stays 7 1/2"

Working pressures by rules 231 lbs Girders to Chamber tops: Material Steel Depth and _____

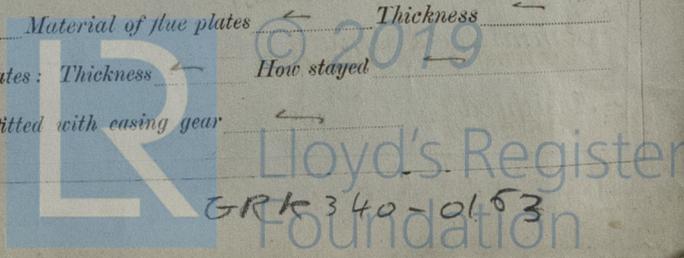
Distance apart 9 x 8 1/2" Number and pitch of Stays in each Three 8"

Can the superheater be shut off and the boiler worked _____

Material of flue 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 _____
 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 _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to _____
 Joint _____ Thickness of furnace crown plates _____ Stayed by _____ Thickness of furnace plates _____
 Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Working pressure of shell by _____
 Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

FOR CAIRD AND COMPANY, LIMITED.

W. Macintosh

SECRETARY

Dates of Survey while building {
 During progress of work in shops - - -
 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
 Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

Committee's Minute

Assigned

A. B. Heron
 Engineer Surveyor to Lloyd's Register of British & Foreign Ships
 Greenock District



Lloyd's Register
 Foundation