

REPORT ON MACHINERY.

Port of *Greenock.*

Received at London Office 18

No. in Survey held at *Port Glasgow* Date, first Survey *3rd Aug^r 1899.* Last Survey *13th Sept^r 1899.*
 Reg. Book. *S. S. "Claverdon" (Hamilton & Co. No 144)* (Number of Visits *7*)
 on the *S. S. "Claverdon" (Hamilton & Co. No 144)* Tons { Gross
 Master Built at *Port Glasgow* By whom built *W. Hamilton & Co.* When built *1899-9*
 Engines made at *Glasgow* By whom made *D. Rowan & Son* when made *1899.*
 Boilers made at _____ By whom made _____ when made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Net Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cranks	Lgth. of stern bush
<i>2</i>	<i>24</i>	<i>100</i>	<i>4 1/2</i>	<i>2</i>	<i>12</i>
<i>1</i>	<i>18</i>	<i>100</i>	<i>3 1/2</i>	<i>1</i>	<i>8</i>
<i>1</i>	<i>18</i>	<i>100</i>	<i>3 1/2</i>	<i>1</i>	<i>8</i>

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room In Holds, &c.

of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
 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
 all connections with the sea direct on the skin of the ship *Yes.* Are they Valves or Cocks *Both.*
 they fixed sufficiently high on the ship's side to be seen without lifting the stowhold plates *Yes.* Are the discharge pipes above or below the deep water line
 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.*
 at pipes are carried through the bunkers 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
 were stern tube, propeller, screw shaft, and all connections examined in dry dock *Before landing* Is the screw shaft tunnel watertight
 fitted with a watertight door worked from _____

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

No. and Description of Boilers	Working Pressure	Tested by hydraulic pressure to
<i>1</i>	<i>150</i>	<i>180</i>

of test Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to
 boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 Range of tensile strength Are they welded or flanged Descrip. of riveting: cir. seams long. seams
 diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom Thickness of plates bottom
 working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 diameter of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 diameter of girder at centre Length as per rule Distance apart Number and pitch of Stays in each
 working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 fitted 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

DONKEY BOILER— No. Description When made Where fixed

Made at By whom made

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 casing gear If steam from main boiler

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of

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.

Dates of Surcey while building
 During progress of work in shops—
 During erection on board vessel—
 Total No. of visits

1899 August 3. 8. 9. 16. 23. Sept. 4. 13.

7.

Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "

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

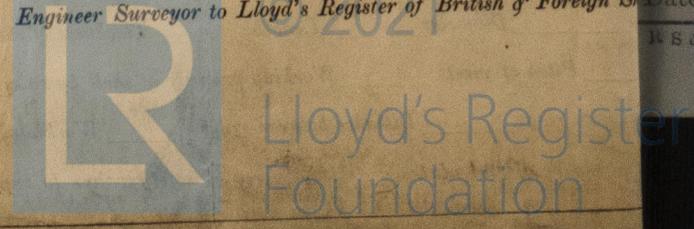
The stem tube, propeller, screw shaft, sea cocks, valves and their fastenings have been fitted in the vessel and found in order. Vessel is to receive her machinery in Glasgow.

See Gls. Report 14391

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

R. Elliott
 Engineer Surveyor to Lloyd's Register of British & Foreign Steamships

Committee's Minute
 Assigned
 FRI, 20 OCT 1899



The Surveys are requested not to write on or below the space for Committee's Minute.
 Certificate (if required) to be sent to