

REPORT ON MACHINERY.

10348

Port of Greenock

MO. 28 SEP 1891

Received at London Office 18

10348

Survey held at Port Glasgow

Date, first Survey 4th April 1891 Last Survey 24th Sept. 1891

Book.

(Number of Visits 4)

606.69

on the S.S. "Lady Havelock"

Tons 322.41

er John C. Whitley Built at Port Glasgow By whom built Blackwood & Gordon When built 1891

nes made at Port Glasgow By whom made Blackwood & Gordon when made 1891

rs made at do By whom made do when made 1891

tered Horse Power 98 Owners Baylon S.S. Coy. (Lim'd) Port belonging to London

INES, &c.—

ption of Engines Inverted Direct Acting. Triple Expansion.

eter of Cylinders 15 1/2 25 40 Length of Stroke 27 No. of Rev. per minute 135 Point of Cut off, High Pressure 16 Low Pressure 16

meter of Screw shaft 7 1/4 Diam. of Tunnel shaft 7 1/2 Diam. of Crank shaft journals 8 Diam. of Crank pin 8 size of Crank webs 10 1/2 x 5 1/2

meter of screw 9.6 Pitch of screw 10.0 No. of blades 4 state whether moveable yes total surface 28 square feet

of Feed pumps Two diameter of ditto 2 1/2 Stroke 14 Can one be overhauled while the other is at work yes

of Bilge pumps Two diameter of ditto 3 Stroke 14 Can one be overhauled while the other is at work yes

ere do they pump from Engine Room, Cargo Holds, Ballast Tanks & Tunnel well.

of Donkey Engines Two Size of Pumps 5 x 5 Duplex 3 x 5 Where do they pump from Large from sea, Tanks & bilges, small from sea, Engine room bilges, Hot well & Main boiler.

all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes

of bilge injections One and sizes 3 Are they connected to condenser, or to circulating pump Circulating pump.

are the pumps worked by levers.

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 stokehold plates yes Are the discharge pipes above or below the deep water line on 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

hat pipes are carried through the bunkers Bilge & Fuel tank pipes How are they protected Wood casing.

all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes

the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes

hen were stern tube, propeller, screw shaft, and all connections examined in dry dock on slip before she was launched.

the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from Top platform.

ILERS, &c.—

umber of Boilers One Description R.H. Multitubular Whether Steel or Iron Steel.

orking Pressure 160 lbs. Tested by hydraulic pressure to 320 lbs. per sq. in. Date of test 5th August 1891.

escription of superheating apparatus or steam chest None fitted.

each boiler be worked separately Can the superheater be shut off and the boiler worked separately

Heating surface 1836 square feet. Description of safety valves Direct spring No. to each boiler Two.

of square feet of fire grate surface in each boiler 56 Area of each valve 7.06 sq. in. Are they fitted with easing gear yes No. of safety valves to superheater — area of each valve —

Are they fitted with easing gear — Smallest distance between boilers and bunkers or woodwork 11" Diameter of boilers 14.0"

length of boilers 11.0" description of riveting of shell long. seams D. B. S. treble riv. circum. seams Lap double Thickness of shell plates 1 1/2"

diameter of rivet holes 1 1/4" whether punched or drilled drilled pitch of rivets 8 5/16 & 9 5/16 Lap of plating 18 1/4 straps

percentage of strength of longitudinal joint 85 working pressure of shell by rules 160 lbs. size of manholes in shell 16 x 12

size of compensating rings 30 x 26 x 1 1/4 No. of Furnaces in each boiler 3

outside diameter 4.3 length, top 4.9 bottom 10.3 thickness of plates 1 1/2" description of joint Welded if rings are fitted Yes

reatest length between rings — working pressure of furnace by the rules 160 lbs. combustion chamber plating, thickness, sides 5/8" back 3/4" top 5/8"

pitch of stays to ditto, sides 8 1/2 x 8 1/2 back 7 1/2 x 7 1/2 top 8 1/2 x 8 If stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 162 lbs.

Diameter of stays at smallest part 1 1/2 1 3/8 & 1 1/2 working pressure of ditto by rules 160 lbs. end plates in steam space, thickness 1"

pitch of stays to ditto 1 1/2 x 1 1/2 how stays are secured double nuts working pressure by rules 160 lbs. diameter of stays at smallest part 2 1/4"

working pressure by rules 160 lbs. Front plates at bottom, thickness 3/4" Back plates, thickness 1 1/2" at water spaces at water spaces

reatest pitch of stays 12" working pressure by rules 160 lbs. Diameter of tubes 3 1/2 pitch of tubes 4 3/4 x 4 3/4 thickness of tube plates, front 3/4 doubled at water spaces back 3/4" how stayed Stay tubes pitch of stays 9 1/2 x 9 1/2 width of water spaces 6 to 8 inches

Description of furnaces

646318-0671

Lloyd's Register Foundation

DONKEY BOILER—

Description *See attached Report*

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 _____ if fitted with easing gear _____ if steam from main boilers can
 enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
 Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
 per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
 Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of 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 plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *2 top & 2 bottom end bolts & nuts for connecting rods. 2 Main bearing
 bolts & nuts. 1 set Coupling bolts. 1 set of feed & bilge pump valves. piston rings & springs. 4 bushes for piston
 valve motion. 2 propeller blades. 2 safety valve springs for Main Boiler. 1 do for Donkey Boiler. a quantity
 of bolts nuts & wire assorted. 1 set of air pump valves. 1 set of circulating pump valves.*

The foregoing is a correct description,

Blackwood & Gordon Manufacturer.

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

*This vessel's Engines and Boilers have been specially surveyed during
 construction. workmanship good. Shafts examined when being turned and found
 apparently free from defects. Main steam pipe tested by hydraulic pressure.*

*Engines & Boilers satisfactorily fitted on board and tested under full steam.
 They are now in good order and safe working condition, and are in my opinion
 eligible to be noted in the Register Book. LMC. 9.91.*

Spare gear Continued

*6 Condenser tubes & 50 screw down glands for same. 4 plain tubes for Main Boiler.
 3 relief valve springs for Cylinders. 1 set of furnace bars for Main Boilers*

Machinery Certificate
Written.

The amount of Entry Fee .. £ 2 : - : - received by me,

Special £ 15 : 6 : -

Donkey Boiler Fee £ - : - : -

Certificate (if required) .. £ - : - : - 26th Sep 1891.

To be sent as per margin.

(Travelling Expenses, if any, £ Nil.)

Committee's Minute TUES. 29 SEP 1891

+ L M C 9.91

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

A. L. Heron

Greenock District.

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Foundation