

REPORT ON MACHINERY.

Port of Greenock

Received at London Office MON FEB 17 1896

No. in Survey held at Greenock & Port Glasgow Date, first Survey 19th Sept. 1895 Last Survey 17th May 1896

Book. Supplement 70 on the Twin Screw Steamer "Laura Sodre" (Number of Vents 76)

ster. E. Page Built at Port Glasgow By whom built Russell & Co. Tons Gross 472

ines made at Greenock By whom made John & Kincaid & Co. when made 1896 Net 321

lers made at Glasgow By whom made Lindsay Burnet & Co. when made 1895-12

istered Horse Power 85 Owners Amoyen S N Co. (Lim^d) Port belonging to Para

a. Horse Power as per Section 28 78

INES, &c.— Description of Engines Inverted Direct acting Triple expansion No. of Cylinders Six

meter of Cylinders Two 10" Two 16" Two 26" Length of Stroke 21" Revolutions per minute 180 Diameter of Screw shaft as per rule 4.99

meter of Tunnel shaft as per rule 4.74 Diameter of Crank shaft journals 5 1/8" Diameter of Crank pin 5 1/8" Size of Crank webs as fitted 5 1/2"

meter of screws 5 1/2" Pitch of screws 8 1/2" No. of blades Three State whether moveable yes Total surface 13.17 feet in each

of Feed pumps one each engine Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work yes

of Bilge pumps one each engine Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work yes

of Donkey Engines Two duplex Sizes of Pumps 4x6" & 2x6" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Two 2" In Holds, &c. Para 2

of bilge injections Two sizes 2 3/4" Connected to condenser, or to circulating pump C pump Is a separate donkey suction fitted in Engine room & size yes 2"

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

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 no

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 Bilge How are they protected Wood casing

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

the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes

en were stern tube, propeller, screw shaft, and all connections examined in dry dock 27.1.96 Is the screw shaft tunnel watertight no tunnels

t fitted with a watertight door no door worked from Small iron casings fitted over shafts

ERS, &c.— (Letter for record see Glasgow Report attached) Total Heating Surface of Boilers

and Description of Boilers see Glasgow Report attached Working Pressure Tested by hydraulic pressure to

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

easing gear Smallest distance between boilers or uptakes and bunkers or woodwork Mean diameter of boilers

gth Material of shell plates Thickness Description of riveting: circum. seams long. seams

meter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

centages of strength of longitudinal joint 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

gth of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

h of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

erial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

erial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

meter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

ickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

meter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

h across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ness 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

rately 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

iffened 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— Description *see Newcastle Surveyor's Report attached.*

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 boiler
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:— *1 Piston for each size of Cylinder. 1 Connecting rod complete. 3 Slide Valve Spindles. 1 Circulating pump piston & rod. 1 Cover for each size Cylinder. 1 Tail shaft in two lengths with flange couplings. 1 Boss & 25 Steel blades. 1 intermediate shaft. 1 crank shaft. 1 set feed & bilge pump.*

The foregoing is a correct description,

John G. Knicaid & Co Manufacturer.

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

These Engines have been specially surveyed during last year's workmanship good. Main steam pipes tested by hydraulic pressure to 32 lbs per sq. inch satisfactory. The Engines & Boilers are satisfactorily fitted in place and have been tested under full steam. They are now in good order and safe working condition and are in my opinion eligible to be noted in Book LMC 2.96.

Spare gear continued.

1 set Air & Circulating pump valves. 1 set piston springs. 1 set Crank pin brass. 1 set eccentric brasses. 1 set liners for thrust collars. 1 set springs for safety valves on main boiler. 1 do for escape valves on Cylinder & pumps. 1 set safety valves. 1 set Check valves. 2 Main bearing bolts for each Engine. 1 set Coupling bolts for each Engine. 1 set Chest studs. 12 junking bolts. 1 set studs for Air & Circulating pumps. 1 air pump. 2 spare bushes for stem tubes. 12 studs & nuts for Cylinder covers. 1 set oiler lubricator gear for one set Engines. 1 set Condenser tubes with packing glands. 1 set feed & bilge pump bearings for main boiler.

It is submitted that this vessel is eligible for THE RECORD.

L.M.C 2.96.

17.2.96

17.2.96

Certificate (if required) to be sent to _____

The amount of Entry Fee.. £ 1 : " : " :
Special £ 14 : " : " :
Donkey Boiler Fee .. £ " : " :
Travelling Expenses (if any) £ " : " :
When applied for, 10.2.96
When received, 18.2.96

Committee's Minute

TUES. FEB 18 1896

Assigned

+ L.M.C 2.96

MACHINERY CERTIFICATE
WRITTEN.

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



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Foundation