

REPORT ON MACHINERY.

No. 18042

WED. NOV. 15 1922

Received at London Office

4.

of writing Report 9th Nov. 1922 When handed in at Local Office

10/11/1922 Port of *Greenock*

in Survey held at *Greenock*

Date, First Survey 27th Sept. Last Survey 8th Nov. 1922

Book.

47 on the *S.S. ATLANTICOS ex SYLVIA VICTORIA*

(Number of Visits 15.)

ter

Built at *Vancouver B.C.* By whom built *J. Connelley & Sons*

Tons { Gross 5700
Net 3333

nes made at *Greenock*

By whom made *John G. Kirkland & Co. Ltd.* when made 1922.

rs made at *Vancouver B.C.*

By whom made *Vancouver Iron Works* when made 1919.

tered Horse Power

Owners *E. J. Calverley & J. C. Calverley* Port belonging to *Sydney*

Horse Power as per Section 28 536

Is Refrigerating Machinery fitted for cargo purposes *Yes* Is Electric Light fitted *Yes*

INES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3 No. of Cranks 3

of Cylinders 27-44-73 Length of Stroke 48

Revs. per minute

Dia. of Screw shaft as per rule 14.85 as fitted 15.18 Material of screw shaft 5.

screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

propeller boss *Yes* If the liner is in more than one length are the joints burned *Yes*

If the liner does not fit tightly at the part

on the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

are fitted, is the shaft lapped or protected between the liners

Length of stern bush 60 1/2

of Tunnel shaft as per rule 13.49 as fitted 13.57 Dia. of Crank shaft journals as per rule 14.17 as fitted 14.24

Dia. of Crank pin 14 1/2 Size of Crank webs 28 x 9 Dia. of thrust shaft under

14 1/2 Dia. of screw 2 1/2 Pitch of Screw 18-9

No. of Blades 4 State whether moveable *Yes* Total surface 104 1/2

of Feed pumps 2 Diameter of ditto 4 Stroke 24

Can one be overhauled while the other is at work *Yes*

of Bilge pumps 2 Diameter of ditto 4 Stroke 24

Can one be overhauled while the other is at work *Yes*

of Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room

In Holds, &c.

f Bilge Injections

sizes

Connected to condenser, or 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 valves on Engine room bulkheads always accessible

all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

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

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from *Top Platform E.R.*

ERS, &c.—(Letter for record)

Manufacturers of Steel

l Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers 3 Cyl. Mult. S. End.

king Pressure 187 1/2

Tested by hydraulic pressure to 300 1/2

Date of test 6.2.19

No. of Certificate 19

each boiler be worked separately

Area of fire grate in each boiler 63 1/2

No. and Description of Safety Valves to

boiler 2 Spring

Area of each valve 9.06

Pressure to which they are adjusted 192 1/2

Are they fitted with easing gear *Yes*

test distance between boilers or uptakes and bunkers or woodwork 18

Mean dia. of boilers 14-9/8 Length 11-5/8 Material of shell plates

ness Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

seams Diameter 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

th of plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

king 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

erial of stays

Area 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

at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

kness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

eter 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

Chamber tops: Material

Depth and

ness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

king pressure by rules

Steam dome: description of joint to shell

% of strength of joint

meter

Thickness of shell plates

Material

Description of longitudinal joint

Thick. of rivet holes

h of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

ERHEATER. Type *Forster*

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

meter of Safety Valve

Pressure to which each is adjusted 210 1/2

Is Easing Gear fitted

W1310-0149

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? -

SPARE GEAR. State the articles supplied:— *Two top and bottom + nuts, two bottom in
sills, two main bearing sills, set of coupling bolts, valves for
air feed and bilge pumps, one propeller shaft!*

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green

Secretary.

Manufacturer.

Dates of Survey while building
(During progress of work in shops - -)
(During erection on board vessel - -)
Total No. of visits

1922. Sept. 27. Oct. 3. 5. 9. 13. 16. 19. 24. 25. 27. 30. Nov. 1. 2. 3. 8.

15.

Is the approved plan of main boiler forwarded herewith -

" " " donkey " " " "

Dates of Examination of principal parts—Cylinders -

Slides -

Covers -

Pistons -

Rods -

Connecting rods -

Crank shaft -

Thrust shaft -

Tunnel shafts -

Screw shaft -

Propeller -

Stern tube 13.10.22 Steam pipes tested 25.5.10/11

Engine and boiler seatings 24.10.22

Engines holding down bolts 3.11

Completion of pumping arrangements 30.10.22

Boilers fixed -

Engines tried under steam 8.11.22.

Completion of fitting sea connections -

Stern tube 16.10.22.

Screw shaft and propeller 19.10.22.

Main boiler safety valves adjusted 14.3.11/22

Thickness of adjusting washers 729/14 5/8. 713/16 5/32. 753/64

Material of Crank shaft -

Identification Mark on Do. -

Material of Thrust shaft S.

Identification Mark on Do. 1.5

Material of Tunnel shafts S.

Identification Marks on Do. 6-18.12.19 77

Material of Screw shafts S.

Identification Marks on Do. 5/16

Material of Steam Pipes L.W. Iron

Test pressure 600 lb. sq. in.

Is an installation fitted for burning oil fuel *No*

Is the flash point of the oil to be used over 150°F. -

Have the requirements of Section 49 of the Rules been complied with -

Is this machinery duplicate of a previous case *No*

If so, state name of vessel *S/S. BENCLEUCH*

General Remarks (State quality of workmanship, opinions as to class, &c. *These Engines (see. Cals
Machinist & Yrley h. 3418 as per Surveyor's letter of
23.2.22. (E)) have now been fitted on board the above
vessel and proved satisfactory under steam. The work
is shippable, in my opinion, to have fresh run + L.Y.C.
NE 1922.*

GREENOOK

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 ... £ - :
Special ... £ 30 : 0 :
Donkey Boiler Fee ... £ - :
Travelling Expenses (if any) £ - :
When applied for, 10/11/1922
When received, 1.12.22

M. Lane

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

GLASGOW 14 NOV 1922

Assigned + NE 11,22

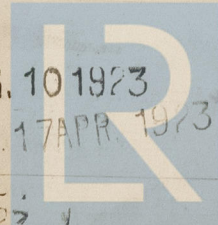
FRI. AUG. 10 1923

TUE. 17 APR. 1923

FRI 25 MAY. 1923

TUE OCT. 9 1923

FRI. 9 NOV. 1923



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