

REPORT ON MACHINERY.

No. 493
TUE. 27 MAY. 1919

REC'D NEW YORK

Received at London Office

Date of writing Report Feb 11th 1919 When handed in at Local OfficeFeb 11th 1919 Port of Seattle Wash.No. in Survey held at
Reg. Book.Date, First Survey Oct- 8th 1918 Last Survey Dec. 3rd 1918

(Number of Visits)

on the Wood Single Screw Steamer Antonia

Master B. Mauros, Built at Coquitlam By whom built Pacific Construction Co. Ltd. Tons Gross 2343.28, Net 1441.08, When built 1919

Engines made at Seattle Wash. By whom made Puget-Sound Machinery Depot when made 1918

Boilers made at Tacoma Wash. By whom made Pacific Steel & Boiler Works when made 1918

Registered Horse Power 1400 Owners Nicolas Gallanos. Port belonging to Andros,

Nom. Horse Power as per Section 28 246.0 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes,

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 19-32-56 Length of Stroke 36 Revs. per minute 100 Dia. of Screw shaft as per rule Material of screw shaft as fitted

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

Is the propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

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

Liners are fitted, is the shaft lapped or protected between the liners Length of stern bush

Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule 10 7/8 Dia. of Crank pin 11 1/4 Size of Crank web of thrust shaft under

Collars 10 3/4 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

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

In Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

Are 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

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are 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

Are 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

What pipes are carried through the bunkers How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

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 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 103.104) Manufacturers of Steel Otto Steel Co

Total Heating Surface of Boilers 5036 Is Forced Draft fitted No No. and Description of Boilers Two M. J. Ferris Type

Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 3.12.18 No. of Certificate 1

Can each boiler be worked separately Yes Area of fire grate in each boiler 78 sq ft No. and Description of Safety Valves to

Each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 12' 10" Length 9' Material of shell plates Steel

Thickness 5/8" Range of tensile strength 55000 Are the shell plates welded or flanged Flanged Descrip. of riveting: cir. seams S. R. Lap

Long. seams S. R. Lap Diameter of rivet holes in long. seams 7/8 Pitch of rivets 2 1/2" x 4" Lap of plates or width of butt straps 19 3/8 x 13 7/8

Per centages of strength of longitudinal joint rivets 112 Working pressure of shell by rules W. T. Size of manhole in shell 11 x 15"

Size of compensating ring No. and Description of Furnaces in each boiler 1 Open Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

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

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

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

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

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

Thickness 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

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

Thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Puget Sound Machinery Depot—

Hon. F. Simon Supr

Manufacturer.

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

Oct- 8th 1918

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders Oct 8th Slides Oct 8th Covers Oct 8th Pistons Oct 8th Rods Oct 8th

Connecting rods Oct 8th Crank shaft Oct 8th Thrust shaft Oct 8th Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel 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 If so, state name of vessel

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

This engine built by the Puget Sound Machinery Depot Seattle, to the order of the Emergency Fleet Corporation under the inspection of the American Bureau of Shipping. The engine were opened up at the works all the various parts thoroughly examined and found satisfactory. Afterwards closed up and forwarded to Port Coquitlam B.C. for installation.

The main Boilers were also built for the Emergency Fleet Corporation by the Pacific Coast Steel & Boiler Works Tacoma under the inspection of the American Bureau of Shipping. These Boilers have now been examined externally and internally and tested by me to 400 lbs hydrostatic pressure and found sound & tight. The Certificate of list is herewith attached.

The amount of Entry Fee ... \$ 10 00. When applied for.

2/39 Special ... \$ 111 50. March 13th 1919.

Donkey Boiler Fee ... £ : : When received.

Travelling Expenses (if any) \$ 8 00. 10/6/19 RBB 10

L. Mowbray
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. JUN. 3--1919

Assigned

See accompanying file No 720



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