

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 Office Feb 11th 1919 Port of Seattle Wash.

No. in Survey held at Seattle Wash. Date, First Survey Oct 8th 1918 Last Survey Dec 3rd 1918

Reg. Book. 1400 (Number of Visits) 234328

on the Wood Single Screw Steamer Antonia Gross Tons 1441.08

Master B. Mauros, Built at Coguetlan By whom built Pacific Construction Co. Ltd 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

Net 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 Yes Is the after end of the liner made water tight Yes

Is the propeller boss fitted with a continuous liner 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 Yes

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

Are the liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush as per rule

Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as per rule Size of Crank web as per rule

Collars 10 3/4 Dia. of screw 10 3/4 Pitch of Screw 10 3/4 No. of Blades 11 1/4 State whether moceable Yes Total surface as per rule

No. of Feed pumps 2 Diameter of ditto 10 3/4 Stroke 10 3/4 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 10 3/4 Stroke 10 3/4 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 10 3/4 No. and size of Suctions connected to both Bilge and Donkey pumps as per rule

Engine Room as per rule In Holds, &c. as per rule

No. of Bilge Injections 2 sizes 10 3/4 Connected to condenser, or to circulating pump as per rule Is a separate Donkey Suction fitted in Engine room & size as per rule

Are 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

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks as per rule

Are 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 as per rule

Are 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

What pipes are carried through the bunkers as per rule How are they protected as per rule

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from as per rule

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

Total Heating Surface of Boilers 5036 Is Forced Draft fitted No No. and Description of Boilers Two No. 4 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 as per rule

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

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

Thickness 5/8" Range of tensile strength 55000-58000 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 as per rule Working pressure of shell by rules W.T Size of manhole in shell 11 x 15"

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

Length of plain part as per rule Thickness of plates as per rule Description of longitudinal joint as per rule No. of strengthening rings as per rule

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

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

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

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

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

Thickness as per rule Material of Lower back plate as per rule Thickness as per rule Greatest pitch of stays as per rule Working pressure of plate by rules as per rule

Diameter of tubes as per rule Pitch of tubes as per rule Material of tube plates as per rule Thickness: Front as per rule Back as per rule Mean pitch of stays as per rule

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

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

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

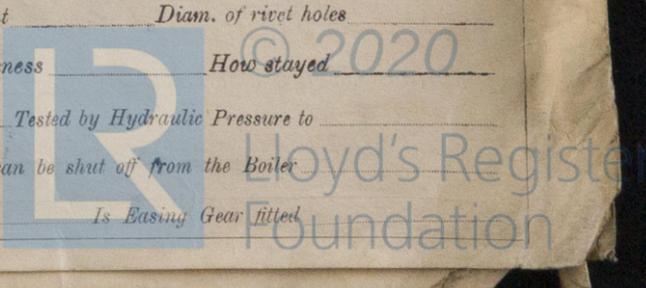
Diameter as per rule Thickness of shell plates as per rule Material as per rule Description of longitudinal joint as per rule Diam. of rivet holes as per rule

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

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

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

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



1010-466M

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

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 test is herewith attached.

The amount of Entry Fee ... \$ 10 00. When applied for. 2/39 Special ... \$ 111 50. March 13 1919. Donkey Boiler Fee ... £ : : When received. Travelling Expenses (if any) \$ 8 00. 10/16/19 RRB/10

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

Committee's Minute Assigned See accompanying file No 720 TUE JUN. 3--1919



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

Rpt. Port No. Reg. B. Owner Yard. DESCR Co. Capac. Where. Positi. Positi. Lor. cu. If fus. c. If ves. Are th. Are a. an. Are ab. Total. A. B. C. D. E. one. If arc. Where. DESCR Main ca. Branch. Branch. Leads to. Cargo la. DESCR All. con. Joints i. Bot. Are all. pos. Are ther. How ar.