

Rpt. 4.

REPORT ON MACHINERY

No. 3428

FRI. 18 NOV. 1921

Received at London Office

Date of writing Report 26th SEPT. 1921 When handed in at Local Office

19 Port of SAN FRANCISCO, CAL.

No. in Survey held at E. SAN PEDRO CAL.

Date, First Survey 20th APRIL 1921 Last Survey 22nd SEPT. 1921

Reg. Book.

(Number of Visits 44.)

on the

S/S. "SEMIRAMIS."

Tons

Gross 5827.72

Net 3435.71

When built 1921.

Master G. VAN KREFTEN Built at E. SAN PEDRO, CAL. By whom built SOUTHWESTERN S. S. CO.

Engines made at HAMILTON OHIO. By whom made HOOVEN OWENS AND RENTSCHLER CO.

when made 1921.

Boilers made at PORTLAND OREGON. By whom made WILLAMETTE IRON AND STEEL WORKS.

when made 1921.

Registered Horse Power

Owners NEDERLANDSCH-INDISCHE TANK STOOMBOOT MAATSCHAPPIJ.

Port belonging to S. GRAVENHAGE.

Nom. Horse Power as per Section 28 556.

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 27" x 45" x 1/4" Length of Stroke 48" Revs. per minute 80. Dia. of Screw shaft as per rule 14 1/8" Material of screw shaft S.

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 in the propeller boss YES. If the liner is in more than one length are the joints burned WELD. 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.

Dia. of Tunnel shaft as per rule 13 3/8" Dia. of Crank shaft journals as per rule 14 1/2" Dia. of Crank pin 14 1/2" Size of Crank webs 27 1/2" x 29" Dia. of thrust shaft under collars 14 1/2" Dia. of screw 1 1/4" - 9" Pitch of Screw 1 1/4" - 0" No. of Blades 4 State whether moveable No. Total surface 86.6 sq ft

No. of Feed pumps TWO. Diameter of ditto 10 1/2" x 8" Stroke 21" Can one be overhauled while the other is at work YES.

No. of Bilge pumps TWO. Diameter of ditto 4" Stroke 26" Can one be overhauled while the other is at work YES.

No. of Donkey Engines TWO. Sizes of Pumps 1" - 12" x 10" x 12" 1" - 8" x 6" x 18" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room ONE: 3 1/2" TWO: 3" B.P. TWO: 3" In Holds, &c. COFFERDAMS. TWO: 4"

No. of Bilge Injections ONE sizes 10" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size YES. 4"

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.

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

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 ABOVE.

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 NONE. How are they protected.

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. Is it fitted with a watertight door. worked from.

BOILERS, &c.—(Letter for record S) Manufacturers of Steel SEE PORTLAND REPORT.

Total Heating Surface of Boilers 8451. Is Forced Draft fitted YES. No. and Description of Boilers 3. SINGLE ENDED SCOTCH.

Working Pressure 180 LBS. Tested by hydraulic pressure to 320. Date of test APRIL 23rd 1921. No. of Certificate 241-242-243.

Can each boiler be worked separately YES. Area of fire grate in each boiler OIL BURNER. No. and Description of Safety Valves to each boiler 2. SPRING LOADED. Area of each valve 11.04 sq ft Pressure to which they are adjusted 185 LBS. Are they fitted with easing gear YES.

Smallest distance between boilers or uptakes and bunkers or woodwork 14" Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

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

Per centages of strength of longitudinal joint rivets. Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in each boiler 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: 8/16" 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

W1324-0074

Lloyd's Register
Foundation

If so, is a report now forwarded? Yes.

The foregoing is a correct description,

Dates of Survey while building	{ During progress of work in shops - - { During erection on board vessel - - { Total No. of visits	1920: APRIL 20, JUNE 20, 22, 29, JULY 5, 14, 15, 18, 26, AUG. 9, 10, 18.	
		1921: JULY 1, 12, 19, 21, 25, 27, 28, 29, AUG. 1, 2, 4, 8, 11, 15, 16, 17, 18, 19, 22, 25, 27, 29, SEPT. 1, 3, 6, 8, 10, 12, 13, 16, 20, 22.	Is the approved plan of main boiler forwarded herewith <input checked="" type="checkbox"/>
		44	" " donkey " " " " <input checked="" type="checkbox"/>

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

It is submitted that
this vessel is eligible for
THE RECORD. *L.M.C. - 9.21. F.D. C.L.*

Fitted for Cis Auel, 9.21, F.P. above 150° F.

$\frac{2}{5}$ mach. fee (on \$205.60) plus \$110.25 expense to be credited Cleveland, their Eng. Rpt. No 159.
to be credited Portland, Ore., their Boiler Rpt No. 631.

The amount of Entry Fee	...	\$ 30:-	When applied for, <i>Oct. 11, 1921</i>
Special	...	\$ 514:-	
Donkey Boiler Fee	...	\$ 75:-	
Travelling Expenses (if any)	\$ 19.95	When received, <i>20.10.1921</i>	
	\$ 110.25		

Committee's Minute

Assigned

W^m Smith
Engineer Surveyor to Lloyd's Register of Shipping.

MACHINERY CERT
WRITTEN 7-12-21
(dated 18-11-21)

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