

REPORT ON MACHINERY.

No. 13020

Received at London Office TUE. AUG. 29. 1916
 at Hoboken N.J. Date, First Survey 10th July 1916 Last Survey 24th July 1916
 S.S. "F. J. LISMAN" (Number of Visits 9)

Built at E. Corse By whom built Saut-Lake Engine Works
 Tons { Gross 2294 Net 1666
 When built 1911
 By whom made Saut-Lake Engine Works when made 1911
 By whom made Saut-Lake Engine Works when made 1911
 Owners Oriental Navigation Co Port belonging to Montevideo

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three

Length of Stroke 42 Revs. per minute 72 Dia. of Screw shaft 12-18 as per rule 11-67 Material of screw shaft 12-18 as fitted 12-18

Is the liner in more than one length are the joints burned No. see attached r/p the after end of the liner made water tight

If the liner does not fit tightly at the part the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

shaft lapped or protected between the liners Yes Length of stern bush 4'-0"

Dia. of Crank shaft journals 11-25 as per rule 11-25 Dia. of Crank pin 11-3/8 Size of Crank webs 3 1/2 x 8 Dia. of thrust shaft under screw 13'-6" Pitch of Screw 13'-3"

No. of Blades 4 State whether moveable Yes Total surface 70 ft

Diameter of ditto Stroke Can one be overhauled while the other is at work Yes Independent Duplex

Diameter of ditto 5" Stroke 12" Can one be overhauled while the other is at work Yes

Sizes of Pumps 7 1/2 x 8 1/2, 9 x 6 1/2, 10 1/2 x 4 1/2, 6 x 4 x 6, 3 1/2 x 4 x 4 No. and size of Suctions connected to both Bilge and Donkey pumps

2 3 1/2" and 2 4" dia In Holds, &c. One 3 1/2" dia in each hold. 3 1/2"

Ballast & Topsides Tanks sizes 7 1/2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 3 1/2" dia

Pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves & cocks

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

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

through the bunkers Topside Suctions, Hold Suctions How are they protected Steel Casings

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

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

unnel watertight Engine Rft. Is it fitted with a watertight door worked from

Letter for record S Manufacturers of Steel

Is Forced Draft fitted Yes No. and Description of Boilers Two Single Ended

Tested by hydraulic pressure to 280 lbs Date of test 20th July 1916 No. of Certificate

Area of fire grate in each boiler 41-12 ft No. and Description of Safety Valves to

Area of each valve 9-62 Pressure to which they are adjusted 173 lbs Are they fitted with easing gear Yes

boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 13'-0" Length 12'-1 1/4 Material of shell plates Steel

Are the shell plates welded or flanged Flanged Descrip. of riveting: cir. seams SR Lap

Ball Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 6 13/16 Lap of plates or width of butt straps 14"

of longitudinal joint rivets 140 No. Working pressure of shell by rules 186 lbs Size of manhole in shell 11" x 15"

No. and Description of Furnaces in each boiler Two Monier Material Steel Outside diameter 48-16"

Thickness of plates crown 5/8 bottom 1/2 Description of longitudinal joint No. of strengthening rings

Combustion chamber plates: Material Steel Thickness: Sides 2 1/2 Back 2 1/2 Top 2 1/2 Bottom 2 1/2

Sides 8 x 8 Back 8 x 8 Top 8 x 8 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 172 lbs

Area at smallest part 1-393 Area supported by each stay 64 Working pressure by rules 220 lbs End plates in steam space:

Thickness 3/4 Pitch of stays 16 1/16 How are stays secured Nuts Working pressure by rules 199 lbs Material of stays Steel

Area supported by each stay 268 Working pressure by rules 220 lbs Material of Front plates at bottom Steel

al of Lower back plate Steel Thickness 5/8 Greatest pitch of stays 12-25 Working pressure of plate by rules 170 lbs

Pitch of tubes 4 1/4 x 4 1/6 Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 12-25

Water spaces 13 1/2 Working pressures by rules 134 lbs Girders to Chamber tops: Material Steel Depth and

centre 8 by 1 1/2 Length as per rule 2-5 3/4 Distance apart 8 Number and pitch of stays in each 3 @ 8"

rules 196 lbs Steam dome: description of joint to shell % of strength of joint

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

Working pressure of shell by rules Crown plates Thickness How stayed

Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

Pressure to which each is adjusted Is Easing Gear fitted

W815 - 0118

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IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

The set of feed and bilge pump valves. The set of piston rings. Assorted bolts nuts and iron of various sizes. propeller blades.

It is understood that the remainder of the spare gear will be forwarded to this vessel as early as possible and will be placed on board.

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of main boiler form

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Stern tube

Steam pipes tested

Engine and boiler seatings

Engines holding

Completion of pumping arrangements

Boilers fixed

Engines tried under st

Completion of fitting sea connections

Stern tube

Screw shaft and prop

Main boiler safety valves adjusted

Thickness of adjusting washers

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identified

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identified

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

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 S S Penobscot

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

The Machinery and Boilers of this vessel having been and examined. I am of opinion that they are in and safe working condition, the quality of workman as far as can be seen is good. The boilers although strictly in accordance with the Society's Rules, stand pressure of 280 lbs per sq inch and very satisfactory. The Engines and Boilers were tried under working condition found to be in good working order. Pumping Arrangements, In my opinion the Machinery of this vessel is classed in the Society's Register Book with the record of 2. Mile in T.S 7-16, subject to the spare gear being placed on required by the Rules of the Society.

The amount of Entry Fee ... £

Special ...

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

16-8-1916

When received,

22-9-1916

Engineer Surveyor

Committee's Minute

Assigned

TUE. SEP. 19. 1916

TUE. 26 JUN. 1917

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