

APR 19 1923
Rpt. 4.

REPORT ON MACHINERY.

No. 294

Received at London Office

MAY 14 1923

Date of writing Report 3/4/23 When handed in at Local Office

Port of Cleveland Ohio

No. of Survey held at Reg. Book.

Date, First Survey 19/2/23 Last Survey 4/4/1923

3653 on the Engine N° 5131 to be fitted in the steamer "JOSIAH MACY"

(Number of Visits)

Gross 6899
Net 5297

Master Built at Seattle Wash. By whom built Skinner & Eddy Corp.

When built 1917-6

Engines made at Hamilton O. By whom made Hooven Owens & Rentschle Co. when made 1923

Boilers made at By whom made when made

Registered Horse Power Owners Standard Oil Co. N.Y. Port belonging to New York

Nom. Horse Power as per Section 28 549 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

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

Dia. of Cylinders 24 1/2" x 41 1/2" x 42" Length of Stroke 48" Revs. per minute 80 Dia. of Screw shaft as per rule 14 3/8" 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

n 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

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

as per rule 13.11" Dia. of Crank shaft journals as per rule 13.74" 13.87" Length of stern bush 48.95" x 27" Dia. of thrust shaft under as fitted 13.96" Dia. of Crank pin 14 3/8" Size of Crank webs 29 3/4"

rs Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Bilge pumps 2 Diameter of ditto 5 Stroke 21" 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.

of Bilge Injections sizes Connected to condenser, or to 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 sluices 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

t 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

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

e Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ERS, &c.—(Letter for record) Manufacturers of Steel

Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

ing Pressure 210# Tested by hydraulic pressure to Date of test No. of Certificate

each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

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

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

ess 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

antages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

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

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

ng 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

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

ial 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

ess Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

ter 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 to Chamber tops: Material Depth and

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

ng 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

itch 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

002770-002783-0277

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts. Two bottom end bolts & nuts. Crank shaft coupling bolts & nuts. Two main bearing bolts & nuts. Set of rings & springs for I.P. & L.P. pistons. Set of valves for air & bilge pumps. Piston rod. Crank pin & crosshead bushes. Piston follower studs. Cylinder cover & valve chest cover studs. Relief valve springs etc.

The foregoing is a correct description, (Engines only)

x Hoover Ocean Rebuilders Co
by Aggregat

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits 4

Feb. 19. 20. April 3 & 4. — 1923.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts
Cylinders 19/2/23 Slides 3/4/23 Covers 3/4/23 donkey " 3/4/23 Pistons 3/4/23 Rods 3/4/23
Connecting rods 3/4/23 Crank shaft 19/2/23 Thrust shaft 4/4/23 Tunnel shafts 4/4/23 Screw shaft 4/4/23 Propeller 4/4/23

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 (ABS. NOS)

Material of Crank shaft O.H. Steel Identification Mark on Do. Q 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.)

The above Engines were originally constructed under the supervision of the American Bureau of Shipping, for the U.S. Emergency Fleet Corp., afterwards being placed in storage. They have now been partly rebuilt & reassembled. The materials & workmanship, so far as can be seen are sound & efficient, & are in accordance with the Society's Rules. When the Engines have been satisfactorily fitted in the vessel, & proved to be satisfactory, under working conditions, & spare gear supplied to the Rule requirements, this vessel will be eligible in my opinion, for Record LMC (with date)

The amount of Entry Fee ... \$30.00

Special ... \$214.00

Donkey Boiler Fee ... £

Travelling Expenses (if any) \$35.40

Committee's Minute

Assigned

TUE 12 FEB. 1924

When applied for.

13/4/23

When received.

18/4/23

NEW YORK MAY 1 1923

G. Drummond

Engineer Surveyor to Lloyd's Register of Shipping.



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