

# REPORT ON MACHINERY.

No. 15111

of writing Report May 18 1918 When handed in at Local Office May 18 1918 Port of New York

in Survey held at Shoeter's Island New York Date, First Survey 6 Oct 1916 Last Survey 4 June 1918

Book on the Machinery for the S/S "PASSAIC"

ster Built at Shoeter's Island N.Y. By whom built Standard S.B. Corp. when made 1918-5

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gistered Horse Power 485 Owners U.S. Shipping Board Port belonging to New York

n. Horse Power as per Section 28 485 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

INES, &c.—Description of Engines Triple Expansion Surface Condensing No. of Cylinders 3 No. of Cranks 3

of Cylinders 24-10-70 Length of Stroke 48 Revs. per minute 75 Dia. of Screw shaft 13.03 Material of Steel

he 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

he propeller boss 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

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

s are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 4-11/2

of Tunnel shaft 12-67 Dia. of Crank shaft journals 13.3 Dia. of Crank pin 13/8 Size of Crank webs 26x10 5/8 Dia. of thrust shaft under 13/8

rs 13/8 Dia. of screw 16-6 Pitch of Screw 17-4 1/2 No. of Blades 4 State whether moveable No Total surface 82 #

of Feed pumps 2 Diameter of ditto 4 Stroke 20 Can one be overhauled while the other is at work Yes

of Bilge pumps 2 Diameter of ditto 5 Stroke 20 Can one be overhauled while the other is at work Yes

of Donkey Engines 5 Sizes of Pumps 2x4x24, 12x14x15, 12x10 1/2 x 12 No. and size of Suctions connected to both Bilge and Donkey pumps 2 1/2 x 3 1/4 x 4

Engine Room 2-3 1/2 In Holds, &c. No. 1. 2-3 1/2 No. 2. 2-3 1/2 No. 3. 2-3 1/2

2-3 1/2 No. 5. 2-3 1/2 Tunnel Med 1-2 1/2 and 6-3 1/2 Vertical Bilge Suctions - Screwdown non-return

of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2

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

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

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

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

hat pipes are carried through the bunkers None How are they protected Yes

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

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

the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Crewman platform.

ILERS, &c.—(Letter for record S) Manufacturers of Steel Central Iron & Steel Co. Harrisburg, Pa.

total Heating Surface of Boilers 7120 # Is Forced Draft fitted Yes No. and Description of Boilers 3 Single ended

orking Pressure 190 lbs Tested by hydraulic pressure to 285 lbs Date of test 8/10/18 No. of Certificate 31

n each boiler be worked separately Yes Area of fire grate in each boiler 602 # No. and Description of Safety Valves to 3

h boiler 2 Spring loaded Area of each valve 12.56 # Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes

allest distance between boilers or uptakes and bunkers 15" Mean dia. of boilers 41-2 3/4 Length 12-0 Material of shell plates Steel

ickness 1/2 1/4 Range of tensile strength 28 1/2 Tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.L.A.P.

ng. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1/2 Pitch of rivets 8 1/2 Top of plates or width of butt straps 23"

er centages of strength of longitudinal joint 103 Working pressure of shell by rules 204 lbs Size of manhole in shell 16 x 12"

ize of compensating ring 38 x 34 x 1 1/2 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 46 3/16

ength of plain part 19 1/2 Thickness of plates 19 1/2 Description of longitudinal joint Welded No. of strengthening rings 1

orking pressure of furnace by the rules 204 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 9/16 Bottom 7/8

itch of stays to ditto: Sides 8" x 7 Back 7 1/4 x 6 Top 7 1/2 x 7 If stays are fitted with nuts or riveted heads None Working pressure by rules 204 lbs.

aterial of stays Steel Area at smallest part 1.48 # Area supported by each stay 46.5 # Working pressure by rules 255 End plates in steam space:

aterial Steel Thickness 1 1/16 Pitch of stays 14 x 14 How are stays secured D.Nuts Working pressure by rules 257 Material of stays Steel

rea at smallest part 5.93 # Area supported by each stay 196 # Working pressure by rules 316 Material of Front plates at bottom Steel

ickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 13 1/8 Working pressure of plate by rules 352

iameter of tubes 3 Pitch of tubes 4 1/2 x 4 Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 8 1/4

itch across wide water spaces 14 Working pressures by rules 230 lbs. Girders to Chamber tops: Material Steel Depth and

ickness of girder at centre 10 x 1 1/2 Length as per rule 35 3/8 Distance apart 7 Number and pitch of stays in each 3-7 1/2"

orking pressure by rules 231 Steam dome: description of joint to shell Not fitted % of strength of joint 100

iameter 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

UPERHEATER. Type Not fitted 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

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

STANDARD S.B. 11-3

