

REPORT ON MACHINERY.

THE NEW YORK No. 9/1920

Size of main pumps required.

Date of writing Report 19 When handed in at Local Office 19 Port of New York
 No. in Survey held at New York Date, First Survey 11 Nov/19 Last Survey 23 Apr 1920
 Reg. Book. 26272 on the Steel screw steamer "MANOA" ex. "SHOSHONE" (Number of Visits)
 Master _____ Built at Vege sack By whom built Bremer Vulkan Tons { Gross 4708
 Engines made at Vege sack By whom made Bremer Vulkan when made 1912 Net 2880
 Boilers made at Vege sack By whom made Bremer Vulkan when made 1912 When built 1912
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 604 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes.

ENGINES, &c.—Description of Engines Quadruple Expansion No. of Cylinders 4 No. of Cranks 4
 Dia. of Cylinders 24, 34.7, 50.4, 74 Length of Stroke 4.52 Revs. per minute 85 Dia. of Screw shaft as per rule 15.85 Material of steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liner - bedwall Is the after end of the liner made water tight
 in the propeller boss oil glands 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
 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush 5'-3"
 Dia. of Tunnel shaft as per rule 13.64 Dia. of Crank shaft journals as per rule 14.33 Dia. of Crank pin 14.7 Size of Crank webs 9 7/8 wide Dia. of thrust shaft under
 collars 14.8 Dia. of screw 17.9 Pitch of Screw 17'-0 3/4 No. of Blades 4 State whether moveable yes Total surface 99 sq. feet.
 No. of Feed pumps 2 main Diameter of ditto 7 7/8 Stroke _____ Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 also ballast pump Diameter of ditto 9 1/2 x 5 1/2 Stroke 8 1/2 / 9 1/2 Can one be overhauled while the other is at work yes
 No. of Donkey Engines _____ Sizes of Pumps 10 x 14 x 16 vertical simplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room one 8" and four 5" In Holds, &c. 9 - 3 1/2"

No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size four 5"
 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 condenser - below bilge - 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 yes Is it fitted with a watertight door yes worked from twice deck level.

BOILERS, &c.—(Letter for record S) Manufacturers of Steel _____
 Total Heating Surface of Boilers each 2878 8634 total Is Forced Draft fitted yes No. and Description of Boilers 3 S. E. Scott Marine
 Working Pressure 220 lbs Tested by hydraulic pressure to 330 lbs Date of test 6 Dec. 1919 No. of Certificate _____
 Can each boiler be worked separately yes Area of fire grate in each boiler 66.2 No. and Description of Safety Valves to
 each boiler two 4" Area of each valve 12.57 Pressure to which they are adjusted 220 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 15'-3" Length 12'-1" Material of shell plates Steel
 Thickness 1 17/32 Range of tensile strength 64/72500 lbs Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams DR. Lap
 long. seams QR. D. B. S. Diameter of rivet holes in long. seams 1 17/32 Pitch of rivets 3 3/8 Lap of plates or width of butt straps 32 1/16
 Per centages of strength of longitudinal joint 86% allowed Working pressure of shell by rules 232 lbs Size of manhole in shell 11 3/4 x 15 3/4
 Size of compensating ring 37 3/4 x 41 1/4 x 1 17/32 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 49 1/4
 Length of plain part _____ Thickness of plates _____ Description of longitudinal joint welded No. of strengthening rings cont.
 Working pressure of furnace by the rules 224 lbs Combustion chamber plates: Material Steel Thickness: Sides 4 1/2 Back 6 1/4 Top 4 1/2 Bottom 5 1/2
 Pitch of stays to ditto: Sides 6 1/16 x 7 7/8 Back 6 8/8 x 7 1/16 op 7 7/8 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 263 lbs
 Material of stays steel Area at smallest part 1.45 Area supported by each stay 53 Working pressure by rules 220 lbs End plates in steam space:
 Material steel Thickness 1 1/16 Pitch of stays 11 1/4 x 14 3/4 How are stays secured dbl. nuts Working pressure by rules 205 lbs Material of stays steel
 Area at smallest part 5.65 Area supported by each stay 210 Working pressure by rules 280 lbs Material of Front plates at bottom steel
 Thickness 1 3/32 Material of Lower back plate steel Thickness 1 3/64 Greatest pitch of stays 11 1/4 x 13 3/4 Working pressure of plate by rules 242 lbs
 Diameter of tubes 2 3/4 Pitch of tubes 3 1/16 Material of tube plates Steel Thickness: Front 1 3/32 Back 29/32 Mean pitch of stays 7 7/8
 Pitch across wide water spaces 13 3/4 Working pressures by rules 226 lbs Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 9 1/2 x 25 3/32 Length as per rule 33 Distance apart 8 1/4 Number and pitch of stays in each 3 - 7 7/8
 Working pressure by rules 220 lbs 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 _____

UPERHEATER. Type None 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 _____



0520-129800-169800

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

100 boiler tubes and 100 boiler tubes

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building: During progress of work in shops - - - 1919 Nov 11 25 26 Dec 2 8 10 1920 Jan 21 Mar 4 5 9 Apr 20 23

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts: Cylinders Slides Covers Pistons Rods Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller

Is an installation fitted for burning oil fuel NO. 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 NO. If so, state name of vessel

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

The amount of Entry Fee ... £ : : When applied for, Special ... £ : : 19 Donkey Boiler Fee ... £ : : When received, Travelling Expenses (if any) £ : : 19

Committee's Minute

Assigned

FRI 2 DEC 1920

No action

FRI JUL 11 1921

FRI 22 SEP 1922

TUE JAN 24 1922

Engineer Surveyor to Lloyd's Register of Shipping.

FRI SEP 29 1922

FRI DEC 8 1922

Lloyd's Register Foundation

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