

REPORT ON MACHINERY

REC'D NEW YORK

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Date of writing Report Dec 10th 1917 When handed in at Local Office Dec 10th 1917 Port of Newport-News Va
 No. in Survey held at Newport-News Va Date, First Survey May 2nd 1917 Last Survey Dec 6th 1917
 Reg. Book. NEW on the STEEL S.S. "MUNINDIES" (Number of Visits 50)
 Master SORGEISEN Built at Newport-News By whom built Newport-News S.S. Co When built 1917.12
 Engines made at Newport-News By whom made Newport-News S.S. Co when made 1917.12
 Boilers made at Newport-News By whom made Newport-News S.S. Co. when made 1917.12
 Registered Horse Power 471 Owners MUNSON S.S. LINES. Port belonging to New York
 Nom. Horse Power as per Section 28 471 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Steam Triple Expanding No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 24 1/2, 41 1/2, 7 1/2 Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft 14 1/8 Material of screw shaft 0.45
 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 yes 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 yes
 If two liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 60"
 Dia. of Tunnel shaft 12 1/4 Dia. of Crank shaft journals 13 1/2 Dia. of Crank pin 4 3/8 Size of Crank webs 9 1/2 Dia. of thrust shaft under collars 14 Dia. of screw 16 9/16 Pitch of Screw 16 9/16 No. of Blades 4 State whether movable no Total surface 92.3
 No. of Feed pumps 2 Diameter of ditto 4 1/2 Stroke 2 1/4 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 5 Stroke 2 1/4 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 10x12x12 - 9x6x10 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Four 3 1/2"; Tunnel: one 3 1/2" In Holds, &c. #1 - Two 3 1/2" #2 - Two 3 1/2" #3 - Two 3 1/2" #4 - Two 3 1/2"
 No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes
 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 yes
 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 and below the deep water line yes
 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 yes
 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 U.I.K.

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel LUKENS & CO. & WORTH BROS.
 Total Heating Surface of Boilers 6564 Is Forced Draft fitted yes No. and Description of Boilers 2 S.E. Scotch
 Working Pressure 190 lbs Tested by hydraulic pressure to 285 Date of test 0.5-16 No. of Certificate 180-181
 Can each boiler be worked separately yes Area of fire grate in each boiler OIL FUEL No. and Description of Safety Valves to each boiler Two 3 1/2"
 Area of each valve 9.62 Pressure to which they are adjusted 190 Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 16 1/6" Length 116" Material of shell plates S.
 Thickness 1 3/4 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR
 long. seams T.B.S.T.R. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 8 3/4 Lap of plates or width of butt straps 23"
 Per centages of strength of longitudinal joint rivets 103.6 Working pressure of shell by rules 203 Size of manhole in shell 16x12
 plate 82
 Size of compensating ring 39x35 No. and Description of Furnaces in each boiler 4 Material S. Outside diameter 47 5/16
 Length of plain part top 19 Thickness of plates crown 19 Description of longitudinal joint WELD No. of strengthening rings yes
 bottom 32 bottom 32
 Working pressure of furnace by the rules 200 Combustion chamber plates: Material S. Thickness: Sides 7/16 Back 5/8 Top 5/8 Bottom 7/8
 Pitch of stays to ditto: Sides 7x7 Back 7x7 Top 8x7 If stays are fitted with nuts or riveted heads yes Working pressure by rules 197
 Material of stays S. Area at smallest part 1.47 Area supported by each stay 56 Working pressure by rules 210 End plates in steam space: Material S. Thickness 1 1/16 Pitch of stays 16x16 How are stays secured I.N. Working pressure by rules 197.5 Material of stays S.
 Area at smallest part 2 3/4 Area supported by each stay 256 Working pressure by rules 24 Material of Front plates at bottom S.
 Thickness 3/4 Material of Lower back plate S. Thickness 3/4 Greatest pitch of stays 12 1/2 Working pressure of plate by rules 280
 Diameter of tubes 2 3/4 Pitch of tubes 4x3 3/4 Material of tube plates S. Thickness: Front 3/4 Back 3/4 Mean pitch of stays 12x7 1/2
 Pitch across wide water spaces 12 3/4 Working pressures by rules 279 Girders to Chamber tops: Material S. Depth and thickness of girder at centre Two 10x3 1/4 Length as per rule 34" Distance apart 8-7" Number and pitch of stays in each Four 7"
 Working pressure by rules 210 Steam dome: description of joint to shell yes % 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

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