

Rpt. 4.

REPORT ON MACHINERY.

No. 2883 THUR. AUG. 12 1920

Date of writing Report July 17th 1920 When handed in at Local Office July 17th 1920 Port of Baltimore, Md.
 No. in Survey held at Baltimore, Md. Date, First Survey Nov. 3rd 1919 Last Survey June 30th 1920
 Reg. Book. 4970 on the Steamer John. B. Gibbons (Number of Visits 116)
 Master Ruddeck Built at Baltimore, Md. By whom built Union Shipbuilding Co. Tons Gross 3212
 Engines made at Baltimore, Md. By whom made Ellicott Machine Corporation When built 1920
 Boilers made at Wilmington Del. By whom made Bethlehem S. B. Corp Harlan Plant. when made 1920
 Registered Horse Power _____ Owners American Bauite Co. Port belonging to Philadelphia
 Nom. Horse Power as per Section 28 310. 360 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted yes.

ENGINES, &c.—Description of Engines Triple Expansion Reciprocating No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 32" - 37 1/2" - 60" Length of Stroke 42 Revs. per minute 80 Dia. of Screw shaft as per rule 12. 12 1/2 Material of Steel
 as fitted 13" screw shaft) 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
 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 _____ Length of stern bush 4'-5"
 Dia. of Tunnel shaft as per rule 11.3" Dia. of Crank shaft journals as per rule 11.8" Dia. of Crank pin 12.25" Size of Crank webs 24" x 8 1/4" Dia. of thrust shaft under
 bars 12.25" Dia. of screw 15'-6" Pitch of Screw 15'-6" No. of Blades 4 State whether moceable yes Total surface 70 sq ft.
 No. of Feed pumps 2 Diameter of ditto 4" Stroke 13" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 13" Can one be overhauled while the other is at work yes
 No. of Donkey Engines 4 Sizes of Pumps 6" x 5 3/4" x 6" 10" x 10" x 12" 9" x 6" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 4-3 1/2" In tunnel 3-3 1/2" In Holds, &c. 4-3 1/2" forward. 3-3 1/2" aft.
 No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes. 3 1/2"
 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 both
 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 both
 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
 How are pipes carried through the bunkers bilge pipes to forward hold How are they protected lumber boards
 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 top platform of Engine Room

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel Please see Philadelphia Report No. 2927.
 Total Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
 No. of boiler _____ Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 No. of seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 Percentages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 No. of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 No. of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 How are stays secured across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 Thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Working 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 _____
 No. 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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