

REPORT ON MACHINERY.

No. 17520

Survey Report Sept 11th 1919 When handed in at Local Office Sept 23rd 1919 Port of New York Received at London Office
Date, First Survey 20 Mar 18 Last Survey 28 Aug 1919
Number of Visits

Survey held at Elizabeth N.J. on the Machine for the S.S. Kewanna
Built at Elizabeth N.J. By whom built Bethlehem S.B. Corp. (More Plant)
Made at Elizabeth N.J. By whom made Bethlehem S.B. Corp. (More Plant) when made 1919-8
Made at Wilmington, Del. By whom made Bethlehem S.B. Corp. (Hartman plant) when made 1919-8
Horse Power Owners Mutual States Shipping Board Port belonging to Elizabeth N.J.

Horse Power as per Section 28 381.7 382 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Condensing No. of Cylinders 3 No. of Cranks 3
Cylinders 22 1/2 - 39 - 63 Length of Stroke 48 Revs. per minute 75 Dia. of Screw shaft as per rule 13.34 Material of screw shaft as fitted 13.5 screw shaft

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
Propeller boss Yes If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

are fitted, is the shaft lapped or protected between the liners Length of stern bush 4-6
Funnel shaft as per rule 12.19 Dia. of Crank shaft journals as per rule 12.8 Dia. of Crank pin 13 Size of Crank webs 9x25/8 Dia. of thrust shaft under
as fitted 13 Dia. of screw 15-9 Pitch of Screw 16-3 man. No. of Blades 4 State whether moveable Yes Total surface 76.96 sq ft

Feed pumps 2 Diameter of ditto 10x7 Stroke 24 Can one be overhauled while the other is at work Yes
Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 18 Can one be overhauled while the other is at work Yes
Donkey Engines 3 Sizes of Pumps 1- 12x8 1/2 x 12 No. and size of Suctions connected to both Bilge and Donkey pumps
1- 10x12 x 12
2- 6x5 1/4 x 6 In Holds, &c. Fore hold 2-3 Fore pump room 1-3
After pump room 2-2 Fore peak 1-3

Engine Room 4-3 dia. 2-3 in No. 1 hold
Bilge Injections 8 sizes 8 Connected to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3"
Are 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
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 Below
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
Pipes are carried through the bunkers None How are they protected

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
Screw Shaft Tunnel watertight Is it fitted with a watertight door Yes worked from

ENGINES, &c.—(Letter for record 5) Manufacturers of Steel North Bros
Heating Surface of Boilers 5510 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 2 Single-ended
Working Pressure 190 Tested by hydraulic pressure to 285 lbs. Date of test 23/4/18 No. of Certificate 187
Can boiler be worked separately Yes Area of fire grate in each boiler 78 sq ft No. and Description of Safety Valves to
each boiler 2 Turn 3 1/2 dia. Area of each valve 9.62 Pressure to which they are adjusted 195 lbs. Are they fitted with easing gear Yes

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Report Are the shell plates welded or flanged Descrip. of riveting: air. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Working pressure of shell by rules Attached Size of manhole in shell

Compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
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
Stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Working pressures by rules Girders to Chamber tops: Material Depth and
Length as per rule Distance apart Number and pitch of stays in each
Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed
SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Pressure to which each is adjusted Is Easing Gear fitted

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