

Rpt. 4.

REPORT ON MACHINERY.

No. 924.

REC'D NEW YORK

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Boston, Mass.

Date of writing Report 6th July 1917. When handed in at Local Office 13th July 1917 Port of Boston, Mass.No. in Survey held at Quincy, Mass. Date, First Survey 3 Feb 1916 Last Survey 1st July 1917. (Number of Visits 58

Reg. Book. on the PENNSYLVANIA Tons Gross 6666 Net 5045

Master H. Ineson Built at Quincy By whom built Fox River S. B. Corporation When built 1917

Engines made at Quincy By whom made Fox River S. B. Corporation when made 1917

Boilers made at Wilmington, Del. By whom made Harlan & Hollingsworth when made 1917

Registered Horse Power Owners The Tescos Company Port belonging to New York.

Nom. Horse Power as per Section 28 549 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes.

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
No. of Cylinders 26½-44-74 Length of Stroke 51 Revs. per minute 75 Dia. of Screw shaft as per rule 14.9 Material of steel
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 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
are fitted, is the shaft lapped or protected between the liners Length of stern bush 5-2
Dia. of Tunnel shaft as per rule 13 Dia. of Crank shaft journals as per rule 14.4 Dia. of Crank pin 14.4 Size of Crank webs 30½ Dia. of thrust shaft under
lars 14.4 Dia. of screw 17-6 Pitch of Screw 17-6 No. of Blades 4 State whether moveable yes Total surface 100
No. of Feed pumps 2 Diameter of ditto 2.8 Stroke 24 Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 independent Diameter of ditto 5.2 Stroke 24 Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps 2.10x12, 6x6x6 No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room 3-3½ and 2-2½ In Holds, &c. oil cargo pumping system

No. of Bilge Injections 1 sizes 10 Connected to condenser circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 4½
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 none
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks yes 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 below
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
That pipes are carried through the bunkers oil fuel suctions 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
Dates of examination of completion of fitting of Sea Connections 6 June 1917 of Stern Tube 6 June 1917 Screw shaft and Propeller 6 June 1917
the Screw Shaft Tunnel watertight No tunnel Is it fitted with a watertight door worked from

MILERS, &c.—(Letter for record R) Manufacturers of Steel As per Philadelphia report 2496 A Herewith
Total Heating Surface of Boilers 7979 Is Forced Draft fitted yes No. and Description of Boilers 3 single ended
Working Pressure 190 lbs Tested by hydraulic pressure to 285 lbs Date of test 10 Jan 1917 No. of Certificate 115
Can each boiler be worked separately yes Area of fire grate in each boiler oil fuel fitted No. and Description of Safety Valves to
each boiler 2 spring loaded Area of each valve 9.62 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork alt 2-0 Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Description of riveting: cir. seams
OR BOILER PARTICULARS PLEASE SEE PHILADELPHIA REPORT 2496 A HEREWITH.
Diam. of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Material of stays Diameter 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
Diameter 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
Pitch 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 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked
separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

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