

REPORT ON MACHINERY

No. 13421

Received at London Office 26 MAR 1917

Date of writing Report Dec. 28th 1916 When handed in at Local Office Dec. 28th 1916 Port of New York
 No. in Survey held at Shenckady Date, First Survey May 15th Last Survey Oct. 9th 1916
 Reg. Book. Shenckady Isle River P.B. 10 No 252 (Number of Visits 6)
 on the

Gross
Tons
Net

Master Shenckady Built at Shenckady By whom built Isle River P.B. Co. When built 1916
 Engines made at Shenckady By whom made General Electric Company when made 1916
 Boilers made at Shenckady By whom made General Electric Company when made 1916
 Registered Horse Power 2400 Owners Isle River P.B. Co. Port belonging to Isle River P.B. Co.
 Shaft Horse Power at Full Power 2400 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

TURBINE ENGINES, &c.—Description of Engines

Geared Turbine

No. of Turbines One

Diameter of Rotor Shaft Journals, H.P. 8 L.P. 3.625
 Diameter of Journals 6.5 H.P. 3.625 L.P. 3.625 Diameter of Pitch Circle 31.667
 Diameter of Wheel Shaft 14.35 Distance between Centres of Bearings 56.5 H.P. 57.5 L.P. 57.5 Diameter of Pitch Circle of Wheel 96.5
 Width of Face 14.35 Diameter of Thrust Shaft under Collars 14.35 Diameter of Tunnel Shaft 14.35
 No. of Screw Shafts 1 Diameter of same 14.35 as per rule 14.35 as fitted 14.35 Diameter of Propeller 14.35 Pitch of Propeller 14.35
 No. of Blades 1 State whether Moveable No Total Surface 14.35 Diameter of Rotor Drum, H.P. 14.35 L.P. 14.35 as tern 14.35
 Thickness at Bottom of Groove, H.P. 14.35 L.P. 14.35 Astern 14.35 Revs. per Minute at Full Power, Turbine 3302 Propeller 75

PARTICULARS OF BLADING.

	ACTIVE HEIGHT OF BLADES.	H.P. PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	L.P. PITCH DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	ASTERN PITCH DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	8.75	13.75	2	11.5	2	1	8.75	13.75	2
2ND	6.25	3.9	1	3.9	1	1	3.375	3.3	1
3RD	1.25	3.10	1	3.10	1	1			
4TH	2.5	4.0	1	4.0	1	1			
5TH	6	4.2	1	4.2	1	1			
6TH									
7TH									
8TH									

No. and size of Feed pumps

No. and size of Bilge pumps

No. and size of Bilge suction in Engine Room

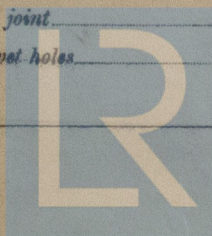
In Holds, &c.

No. of Bilge Injections 1 sizes 1/2 Connected to condenser, or to circulating pump No Is a separate Donkey Suction fitted in Engine Room & size 1/2
 Are all the bilge suction pipes fitted with roses No Are the roses in Engine room always accessible No
 Are all connections with the sea direct on the skin of the ship No Are they Valves or Cocks No
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates No Are the Discharge Pipes above or below the deep water line No
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel No Are the Blow Off Cocks fitted with a spigot and brass covering plate No
 What pipes are carried through the bunkers No How are they protected No
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times No
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges No
 Is the Screw Shaft Tunnel watertight No Is it fitted with a watertight door No worked from No

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers 1000 Is Forced Draft fitted No No. and Description of Boilers 1
 Working Pressure 100 Tested by hydraulic pressure to 100 Date of test 1916 No. of Certificate 1
 Can each boiler be worked separately No Area of fire grate in each boiler 100 No. and Description of Safety Valves to 1
 each boiler 1 Area of each valve 100 Pressure to which they are adjusted 100 Are they fitted with easing gear No
 Smallest distance between boilers or uptakes and bunkers or woodwork 100 Mean dia. of boilers 100 Length 100 Material of shell plates 100
 Thickness 100 Range of tensile strength 100 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 100
 long. seams 100 Diameter of rivet holes in long. seams 100 Pitch of rivets 100 Lap of plates or width of butt straps 100
 Per centages of strength of longitudinal joint 100 Working pressure of shell by rules 100 Size of manhole in shell 100
 Size of compensating ring 100 No. and Description of Furnaces in each Boiler 1 Material 100 Outside diameter 100
 Length of plain part 100 Thickness of plates 100 Description of longitudinal joint 100 No. of strengthening rings 100
 Working pressure of furnace by the rules 100 Combustion chamber plates: Material 100 Thickness: Sides 100 Back 100 Top 100 Bottom 100
 Pitch of stays to ditto: Sides 100 Back 100 Top 100 If stays are fitted with nuts or riveted heads No Working pressure by rules 100
 Material of stays 100 Diameter at smallest part 100 Area supported by each stay 100 Working pressure by rules 100 End plates in steam space 100
 Material 100 Thickness 100 Pitch of stays 100 How are stays secured 100 Working pressure by rules 100 Material of stays 100
 Diameter at smallest part 100 Area supported by each stay 100 Working pressure by rules 100 Material of Front plates at bottom 100
 Thickness 100 Material of Lower back plate 100 Thickness 100 Greatest pitch of stays 100 Working pressure of plate by rules 100
 Diameter of tubes 100 Pitch of tubes 100 Material of tube plates 100 Thickness: Front 100 Back 100 Mean pitch of stays 100
 Pitch across wide water spaces 100 Working pressures by rules 100 Girders to Chamber tops: Material 100 Depth and 100
 thickness of girder at centre 100 Length as per rule 100 Distance apart 100 Number and pitch of stays in each 100
 Working pressure by rules 100 Steam dome: description of joint to shell 100 % of strength of joint 100 Diameter 100
 Thickness of shell plates 100 Material 100 Description of longitudinal joint 100 Diameter of rivet holes 100 Pitch of rivets 100
 Working pressure of shell by rules 100 Crown plates: Thickness 100 How stayed 100



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