

REPORT ON MACHINERY

No. 14557

MON. 20 JAN. 1915

Received at London Office

Date of writing Report 16 December 1914

When handed in at Local Office 19 December 1914

Port of NEW YORK, N.Y.

No. in Survey held at SCHENECTADY, N.Y.

Date, First Survey 14. 5. 18

Last Survey 10. 12. 1914

Reg. Book.

(Number of Visits 40)

on the Pusey & Jones Co. to S.S. Indianapolis

Gross 8164.81
Tons Net 6150

Master J. S. Masury Built at Gloucester & J. By whom built Pusey & Jones Co. When built 1915

Engines made at SCHENECTADY, N.Y. By whom made GENERAL ELECTRIC CO. when made 1914

Boilers made at Camden By whom made New York Ship Bldg Corp. when made 1918

Registered Horse Power Owners U.S. Navy Dep. U.S. Shipping Board Port belonging to Gloucester City & J.

Shaft Horse Power at Full Power 3000 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

TURBINE ENGINES, &c. Description of Engines GEARED TURBINE (TURBINE 12475) No. of Turbines ONE

Diameter of Rotor Shaft Journals, H.P. 8" L.P. Diameter of Pinion Shaft 7" H.S. PINION 7.833"

Diameter of Journals H.S. PINION 7" Distance between Centres of Bearings 42" Diameter of Pitch Circle GEAR 57.666"

Diameter of Wheel Shaft 14" Distance between Centres of Bearings L.S. PINION 65.5" Diameter of Pitch Circle of Wheel L.S. PINION 10.75"

Width of Face 18.450" Diameter of Thrust Shaft under Collars 14" Diameter of Tunnel Shaft as per rule 13.2"

No. of Screw Shafts one Diameter of same as per rule 14.5 Continuous line Diameter of Propeller 17.4 1/2 Pitch of Propeller 13.4

No. of Blades 4 State whether Moveable Yes Total Surface 84.4 Diameter of Rotor Drum, H.P. L.P. Astern

Thickness at Bottom of Groove, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine 33 1/4 Propeller 90

ARTICULARS OF BLADING.

	ACTIVE HEIGHT OF BLADES.	H.P. PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	L.P. DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	ASTERN. PITCH DIAMETER AT TIP.	NO. OF ROWS.
ST EXPANSION	8 1/2" - 13 7/8"	2' - 11 1/2"	2				8 7/8" - 15"	3' - 3"	2
ND	6 1/4"	3' - 9"	1				3 3/8"	3' - 3"	1
ED	1.250"	3' - 10 1/2"	1						
TH	2.500"	4' - 0"	1						
TH	6.000"	4' - 2"	1						
TH									
TH									
TH									

No. and size of Feed pumps 2 12" x 5 1/2 x 24"

No. and size of Bilge pumps 2 10" x 12" x 12" 10 x 8 1/2 x 10

No. and size of Bilge suction in Engine Room 2 8 1/2" Bilge room 2 3 1/2"

In Holds, &c. 10 3 1/2"

No. of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine Room & size

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room 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 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

What pipes are carried through the bunkers Bilge Suctions How are they protected Ceiling

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

OILERS, &c. (Letter for record 2) Manufacturers of Steel Carnegie Steel

Total Heating Surface of Boilers 7894.5 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended

Working Pressure 210 lbs Tested by hydraulic pressure to 315 lbs Date of test 8-7-18 No. of Certificate 212

Can each boiler be worked separately Yes Area of fire grate in each boiler 59 sq ft No. and Description of Safety Valves to

each boiler Double spring loaded Area of each valve 9.6 sq ft Pressure to which they are adjusted 210 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 8 ft Mean dia. of boilers 14-11 Length 11-6 Material of shell plates Steel

Thickness 1 3/4 Range of tensile strength 60000 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DR laps

long. seams DR 5/8 Diameter of rivet holes in long. seams 19/16 Pitch of rivets 10 7/16 Lap of plates or width of butt straps 22 3/4

Per centages of strength of longitudinal joint rivets 80.6 Working pressure of shell by rules 228 lbs Size of manhole in shell 12 x 16"

Size of compensating ring 36 1/2 x 32 1/2 x 1 3/4 No. and Description of Furnaces in each Boiler 3 Conjugated Material Steel Outside diameter 3. 11/4

Length of plain part top Thickness of plates crown 5/8 Description of longitudinal joint Weld No. of strengthening rings

Working pressure of furnace by the rules 213 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 1"

Pitch of stays to ditto: Sides 7/4 x 7 Back 7 x 7 Top 7/4 x 7/4 x 7/4 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 252 lbs

Material of stays Iron Diameter at smallest part 1.99 Area supported by each stay 53.47 Working pressure by rules 280 lbs End plates in steam space

Material Steel Thickness 1 3/32 Pitch of stays 16 1/2 x 18 1/2 How are stays secured D nuts Working pressure by rules 233 Material of stays Steel

Diameter at smallest part 6.49 Area supported by each stay 255.75 Working pressure by rules 263 Material of Front plates at bottom Steel

Thickness 1 1/16 Material of Lower back plate Steel Thickness 1 1/8 Greatest pitch of stays 14/4 x 7 Working pressure of plate by rules 257

Diameter of tubes 2 1/2 Pitch of tubes 3 7/8 x 3 1/2 Material of tube plates Steel Thickness: Front 1 1/16 Back 1 3/16 Mean pitch of stays 8.875

Pitch across wide water spaces 12 3/4 Working pressures by rules 248 Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 9 x 20 1" Length as per rule 2. 11" Distance apart 7/4 Number and pitch of stays in each 4 7/4

Working pressure by rules 256 Steam dome: description of joint to shell % of strength of joint Diameter

Thickness of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets

Working pressure of shell by rules Crown plates: Thickness How stayed

IS A DONKEY BOILER FITTED?

The foregoing is a correct description,

Lloyd's Register
Foundation