

# REPORT ON MACHINERY

No. 2313

Received at London Office

TUE. 19. JAN. 1916

PHILADELPHIA

Writing Report 26/13 19/15 when handed in at Local Office 27/12. 19/15 Port of **PHILADELPHIA**  
 Survey held at **Camden N.J.** Date, First Survey **June 3-15** Last Survey **Dec 14 1915**  
 on the **S.S. JONANCY** (Number of Visits **34**) Tons **Gross 3289 Net 1980**  
 Char **Open** Built at **Camden** By whom built **New York C.B. Co** When built **1915-12**  
 made at **Camden** By whom made **do** when made **1915-12**  
 made at **do** By whom made **do** when made **1915-12**  
 red Horse Power **318 NHP** Owners **Poahontas Navigation Co** Port belonging to **Boston**  
 Horse Power as per Section 28 **320** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **Yes**

**ENGINES, &c.—Description of Engines** **Triple** No. of Cylinders **3** No. of Cranks **3**  
 Cylinders **21 35 58** Length of Stroke **42** Revs. per minute **75** Dia. of Screw shaft **as per rule 13.2 as fitted 13.5** Material of screw shaft **A.H. Steel**  
 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 **Yes** 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 **fitted close** If two  
 are fitted, is the shaft lapped or protected between the liners **Yes** Length of stern bush **5' 0 3/8**  
 Tunnel shaft **as per rule 11 1/4 as fitted none** Dia. of Crank shaft journals **as per rule 11.8 as fitted 12 1/4** Dia. of Crank pin **12 1/4** Size of Crank webs **25x8** Dia. of thrust shaft under  
 12 1/2 Dia. of screw **17.0** Pitch of Screw **13.5** No. of Blades **4** State whether moveable **Yes** Total surface **73 sq ft**  
 Feed pumps **2** Diameter of ditto **4** Stroke **20** Can one be overhauled while the other is at work **Yes**  
 Bilge pumps **2** Diameter of ditto **4 1/2** Stroke **20** Can one be overhauled while the other is at work **Yes**  
 Donkey Engines **4** Sizes of Pumps **10, 12, 12, 10, 6, 10, 6, 7, 8** No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room **6 - 3 1/2** In Holds, &c. **two 3 1/2 each. F peak one 4**  
 Bilge Injections **1** sizes **8** Connected to condenser, or to circulating pump **Yes** Is a separate Donkey Suction fitted in Engine room & size **Yes 3 1/2**  
 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**  
 All connections with the sea direct on the skin of the ship **Yes** Are they Valves or Cocks **valves**  
 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 **above**  
 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**  
 pipes are carried through the bunkers **none** How are they protected **Yes**  
 All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times **Yes**  
 The Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges **Yes**  
 Date of examination of completion of fitting of Sea Connections **Oct. 29, 15** of Stern Tube **Oct. 29, 15** Screw shaft and Propeller **Oct. 29, 15**  
 Is the Screw Shaft Tunnel watertight **no tunnel** Is it fitted with a watertight door **Yes** worked from **Yes**

**BOILERS, &c.—(Letter for record T)** Manufacturers of Steel **North Bros. Conventville**  
 Heating Surface of Boilers **4643 sq ft** Is Forced Draft fitted **Yes** No. and Description of Boilers **2 Single ended**  
 Working Pressure **200 lbs** Tested by hydraulic pressure to **300 lbs** Date of test **Sept. 1, 1915** No. of Certificate **76**  
 Can each boiler be worked separately **Yes** Area of fire grate in each boiler **55 sq ft** No. and Description of Safety Valves to  
 boiler **2 direct spring** Area of each valve **9.62 sq ft** Pressure to which they are adjusted **200 lbs** Are they fitted with easing gear **Yes**  
 Minimum distance between boilers or uptakes and bunkers **14** Mean dia. of boilers **13 3/8** Length **12 7/8** Material of shell plates **Steel**  
 Thickness **3/8** Range of tensile strength **28-32 tons** Are the shell plates welded or flanged **No** Descrip. of riveting: cir. seams **A.T. Lap**  
 seams **Q.B.S.T.R** Diameter of rivet holes in long. seams **1 7/16** Pitch of rivets **9 5/16** Lap of plates or width of butt straps **204**  
 Percentages of strength of longitudinal joint **86.2** Working pressure of shell by rules **215 lbs** Size of manhole in shell **16 x 12**  
 of compensating ring **36 x 32 x 1 3/8** No. and Description of Furnaces in each boiler **3 Inman** Material **Steel** Outside diameter **46 3/8**  
 Length of plain part **top 4 bottom 4** Thickness of plates **19/32** Description of longitudinal joint **welded** No. of strengthening rings **5**  
 Working pressure of furnace by the rules **204** Combustion chamber plates: Material **Steel** Thickness: Sides **5/8** Back **3/2** Top **5/8** Bottom **5/8 + L**  
 Distance of stays to ditto: Sides **7 x 6 7/8** Back **7 x 6 7/8** Top **7 x 8** If stays are fitted with nuts or riveted heads **No** Working pressure by rules **238 lbs**  
 Material of stays **Non area** Diameter at smallest part **1.71** Area supported by each stay **48.15** Working pressure by rules **213 lbs** End plates in steam space:  
 Material **Steel** Thickness **5/32** Pitch of stays **17 x 16 1/2** How are stays secured **D.N.** Working pressure by rules **213 lbs** Material of stays **Steel**  
 Diameter at smallest part **6.49** Area supported by each stay **280.5** Working pressure by rules **240 lbs** Material of Front plates at bottom **Steel**  
 Thickness **3/4** Material of Lower back plate **Steel** Thickness **3/4** Greatest pitch of stays **14.7** Working pressure of plate by rules **354**  
 Diameter of tubes **2 1/2** Pitch of tubes **3 1/2 x 3 3/4** Material of tube plates **Steel** Thickness: Front **3/4** Back **3/4** Mean pitch of stays **beveled**  
 Distance across wide water spaces **13' 0"** Working pressures by rules **253 lbs** Girders to Chamber tops: Material **Steel** Depth and  
 Thickness of girder at centre **9 1/2 x 1 3/4** Length as per rule **34** Distance apart **8** Number and pitch of stays in each **4-7**  
 Working pressure by rules **254 lbs** Superheater or Steam chest; how connected to boiler **None** Can the superheater be shut off and the boiler worked  
 separately **Yes** Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet  
 Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —  
 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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Lloyd's Register Foundation

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— one set coupling bolts, one set of sea-bilge pump valves, one set valves for all donkey pumps, one set valve gear braces, two main bearings, two crossheads, two crank pin bolts, one propeller blade & a quantity of assorted bolts nuts & iron.

The foregoing is a correct description

New York Shipbuilding Company,

H. Allagoun

VICE PRESIDENT.

Manufacturer.

Dates of Survey while building: During progress of work in shops --- June 3. 9. 16. 22. 30. July 2. 7. 9. 14. 23. 27. 30. Aug 3. 11. 16. 23. 27. 30. Sept. 3. 10. 17. 24. 31. Oct. 7. 14. 21. 28. Nov. 4. 11. 18. 25. Dec. 2. 9. 16. 23. Total No. of visits *37*

Is the approved plan of main boiler forwarded herewith *yes, disp.*

Dates of Examination of principal parts—Cylinder Sept. 8. 15. Slides Sept. 8. 15. Covers Sept. 8. 15. Pistons Nov. 9. 15. Rods Sept. 8. 15. Connecting rods Sept. 8. 15. Crank shaft Aug. 11. 15. Thrust shaft Oct. 1. 15. Tunnel shafts --- Screw shaft Sept. 16. 15. Propeller Oct. 29. 15. Stern tube Oct. 29. Steam pipes tested Nov. 19. 15. Engine and boiler seatings Nov. 2. 15. Engines holding down bolts Nov. 23. 15. Completion of pumping arrangements Dec. 7. 15. Boilers fixed Nov. 16. 15. Engines tried under steam Dec. 9. 15. Main boiler safety valves adjusted Dec. 9. 15. Thickness of adjusting washers P.F.  $\frac{3}{4}$  A  $\frac{13}{16}$ . S.F.  $\frac{3}{4}$  A  $\frac{13}{16}$ .

Material of Crank shaft *Steel* Identification Mark on Do. *1491 R.H.* Material of Thrust shaft *Steel* Identification Mark on Do. *1491 R.H.* Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *- d -*

Material of Steam Pipes *Copper* Test pressure *400 lbs*

Is an installation fitted for burning oil fuel *No* Is the flash point of the oil to be used over 150°F. *✓*

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *VIRGINIA. Phl upul 2309*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed & fitted on board under special survey. The workmanship is sound & good throughout. The machinery has been tried under steam, safety valves adjusted & all found to work well which in my opinion renders the vessel eligible for the record of +L.M.C 12.15 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C 12.15. F.D.

*ARRK*

*J.W.D. 18/1/16*

Robert Hargreaves  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

TUE. MAR. 14. 1916

The amount of Entry Fee ... \$ 15.00 : When applied for, Special ... \$ 180.00 : 23.12.1915 Donkey Boiler Fee ... £ : When received, Travelling Expenses (if any) \$ 5.00 : 21.1.1916

Committee's Minute FRI. 10 MAR. 1916

Assigned + L.M.C 12.15. F.D.

MACHINERY CERTIFICATE



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PHILADELPHIA

Certificate (if required) to be sent to PHILADELPHIA. The Surveyors are requested not to write on or below the space for Committee's Minute.