

REPORT ON MACHINERY

No. 2313

Received at London Office

JAN. 1916

PHILADELPHIA

Writing Report 26/12 1915 When handed in at Local Office 27/12 1915 Port of Call
Survey held at Camden N.J. Date, First Survey June 3-15 Last Survey Dec 14 1915
on the S.S. JONANCY
Char. Bker Built at Camden By whom built New York C.B. Co
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 Potomac 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

DES, &c.—Description of Engines

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 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 fitted close If two
are fitted, is the shaft lapped or protected between the liners Length of stern bush 5' 0 3/8
Tunnel shaft as per rule 11.4 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 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 10x12-12, 10x6-10, 6x7-8 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 pump 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

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

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

Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door worked from

ERS, &c.—(Letter for record T) Manufacturers of Steel North Bros. Conlenville

Heating Surface of Boilers 4643 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 2 Single ended

Working Pressure 200 lb Tested by hydraulic pressure to 300 lb Date of test Sept. 1, 1915 No. of Certificate 76

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 lb Are they fitted with easing gear Yes

Least distance between boilers or uptakes and bunkers 14 Mean dia. of boilers 13 1/8 Length 12 1/6 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 0.35 T.R Diameter of rivet holes in long. seams 1 1/6 Pitch of rivets 9 5/16 Lap of plates or width of butt straps 20 1/4

Percentages of strength of longitudinal joint rivets 86.2 Working pressure of shell by rules 215 lb Size of manhole in shell 16x12

of compensating ring 36x32x1/8 No. and Description of Furnaces in each boiler 3 Harmon Material Steel Outside diameter 46 3/8

Length of plain part top 4 Thickness of plates crown 1 1/2 Description of longitudinal joint welded No. of strengthening rings

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

Length of stays to ditto: Sides 7x6 7/8 Back 7x6 7/8 Top 7x8 If stays are fitted with nuts or riveted heads No Working pressure by rules 238 lb

Material of stays Non area Diameter at smallest part 1 7/16 Area supported by each stay 48 1/3 Working pressure by rules 213 lb End plates in steam space:

Material Steel Thickness 5/16 Pitch of stays 17x16 1/2 How are stays secured D.N. Working pressure by rules 213 lb Material of stays Steel

Area at smallest part 6.49 Area supported by each stay 280.5 Working pressure by rules 240 lb Material of Front plates at bottom Steel

Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 14 1/4 Working pressure of plate by rules 354

Diameter of tubes 2 1/2 Pitch of tubes 3 1/2x3 3/4 Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 14 1/4

Each across wide water spaces 13' 6" Working pressures by rules 253 lb Girders to Chamber tops: Material Steel Depth and

Thickness of girder at centre 9 1/2x1 3/4 Length as per rule 34 Distance apart 8 Number and pitch of stays in each 4-7

Working pressure by rules 254 lb 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

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

003252-003262-0118

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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. H. Haggan

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. 30. 1915
During erection on board vessel --
Total No. of visits 34

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

Dates of Examination of principal parts—Cylinders 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. — x — 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.

ARK

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

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

TUE MAR 14 1916

Committee's Minute FRI 10 MAR 1916

Assigned

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

MACHINERY CERTIFICATE

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