

REPORT ON MACHINERY.

No. 861

Received London Office THU 3-AUG. 1916

Writing Report *17th July 1916* When handed in at Local Office *17th July 1916* Port of *Boston Mass.*
 Survey held at *Boston* Date First Survey *14th July* Last Survey *14th July 1916*
 Name of the *Steel Screw Steamer "Bristol"* Number of Vails *3971*
 Name of the *Walker M. Hart* Built at *Camden N.J.* By whom built *New York Shipbuilding Co.* Tons Gross *3556*
 Name of the *Camden N.J.* By whom made *New York Shipbuilding Co.* When built *1916*
 Name of the *Camden N.J.* By whom made *New York Shipbuilding Co.* when made *1916*
 Rated Horse Power *275* Owners *Coastwise Transportation Co.* Port belonging to *Boston*
 Horse Power as per Section 28 *275* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

Engines, &c.—Description of Engines
 No. of Cylinders *✓* No. of Cranks *✓*
 Length of Stroke *✓* Revs. per minute *✓* Dia. of Screw shaft *✓* Material of screw shaft *✓*
 Is the after end of the liner made water tight *✓*
 Is the liner in more than one length are the joints burned *✓* If the liner does not fit tightly at the part *✓*
 Is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two *✓*
 Is the shaft lapped or protected between the liners *✓* Length of stern bush *✓*
 Dia. of Crank shaft journals *✓* Dia. of Crank pin *✓* Size of Crank webs *✓* Dia. of thrust shaft under *✓*
 No. of Blades *✓* State whether moveable *✓* Total surface *✓*
 Diameter of ditto *✓* Stroke *✓* Can one be overhauled while the other is at work *✓*
 Diameter of ditto *✓* Stroke *✓* Can one be overhauled while the other is at work *✓*
 Sizes of Pumps *✓* No. and size of Suctions connected to both Bilge and Donkey pumps *✓*
 In Holds, &c. *✓*

Connected to condenser, or to circulating pump *✓* Is a separate Donkey Suction fitted in Engine room & size *✓*
 Are the roses in Engine room always accessible *✓* Are the sluices on Engine room bulkheads always accessible *✓*
 Are they Valves or Cocks *✓*
 Are the Discharge Pipes above or below the deep water line *✓*
 Are the Blow Off Cocks fitted with a spigot and brass covering plate *✓*
 How are they protected *✓*

Boilers, &c.—(Letter for record) Manufacturers of Steel *✓*
 Is Forced Draft fitted *✓* No. and Description of Boilers *✓*
 Tested by hydraulic pressure to *✓* Date of test *✓* No. of Certificate *✓*
 Area of fire grate in each boiler *✓* No. and Description of Safety Valves to *✓*
 Pressure to which they are adjusted *190* Are they fitted with easing gear *Yes*
 Mean dia. of boilers *✓* Length *✓* Material of shell plates *✓*
 Are the shell plates welded or flanged *✓* Descrip. of riveting: cir. seams *✓*
 Diameter of rivet holes in long. seams *✓* Pitch of rivets *✓* Lap of plates or width of butt straps *✓*
 Working pressure of shell by rules *✓* Size of manhole in shell *✓*
 No. and Description of Furnaces in each boiler *✓* Material *✓* Outside diameter *✓*
 Thickness of plates *✓* Description of longitudinal joint *✓* No. of strengthening rings *✓*
 Combustion chamber plates: Material *✓* Thickness: Sides *✓* Back *✓* Top *✓* Bottom *✓*
 If stays are fitted with nuts or riveted heads *✓* Working pressure by rules *✓*
 Diameter at smallest part *✓* Area supported by each stay *✓* Working pressure by rules *✓* End plates in steam space *✓*
 How are stays secured *✓* Working pressure by rules *✓* Material of stays *✓*
 Area supported by each stay *✓* Working pressure by rules *✓* Material of Front plates at bottom *✓*
 Thickness *✓* Greatest pitch of stays *✓* Working pressure of plate by rules *✓*
 Material of tube plates *✓* Thickness: Front *✓* Back *✓* Mean pitch of stays *✓*
 Working pressures by rules *✓* Girders to Chamber tops: Material *✓* Depth and *✓*
 Length as per rule *✓* Distance apart *✓* Number and pitch of stays in each *✓*
 Superheater or Steam chest; how connected to boiler *✓* Can the superheater be shut off and the boiler worked *✓*
 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 *✓*
 End plates: Thickness *✓* How stayed *✓*
 Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety Valves

No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment

If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length

Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams

Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets Plates

Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays

Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint

Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by

Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops --

During erection on board vessel --

Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods

Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted 14th July 1916 Thickness of adjusting washers Star. Blr.; For Valve 3¹/₂ Aff. Valve 3¹/₂ Blr. 3¹/₂

Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

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

The safety valves of this vessel have now been adjusted under steam to 190 lbs. as per advice from the Chief Surveyor New York of date 7th July 1916.

The machinery & boilers of this vessel are now in good & safe working condition, eligible in my opinion to be classed as recommended by the Surveyors at Philadelphia

Certificate (if required) to be sent to

The amount of Entry Fee .. £ : : When applied for.

Special .. £ : : 18

Donkey Boiler Fee .. £ : : When received.

Travelling Expenses (if any) £ : : 18

Committee's Minute

Assigned

TUE. JUN. 18. 1918

A. J. Maheson

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



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