

REPORT ON MACHINERY.

Date of writing Report Feb. 2nd 1918 When handed in at local Office Feb. 5th 1918 Port of New York 78

No. in Survey held at Bayonne N.J. Date, First Survey _____ Last Survey _____ 19____

Reg. Book. _____ on the Nata Tube Boilers for Hauler D.D.S.B.C. S/S

Master _____ Built at _____ By whom built _____ Tons } Gross
 } Net

Engines made at _____ By whom made _____ when made _____

Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Corp. when made 1918

Registered Horse Power _____ Owners _____ Port belonging to _____

Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

B.A.W. 376

ENGINES, &c.—Description of Engines

No. of Cylinders _____ No. of Cranks _____

Dia. of Cylinders _____ Length of Stroke _____ Revs. per minute _____ Dia. of Screw shaft ^{as per rule} _____ _{as fitted} _____ Material of screw shaft _____

Is the screw shaft fitted with a continuous liner the whole length of the stern tube _____ Is the after end of the liner made water tight in the 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 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive _____ If two liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush _____

Dia. of Tunnel shaft ^{as per rule} _____ _{as fitted} _____ Dia. of Crank shaft journals ^{as per rule} _____ _{as fitted} _____ Dia. of Crank pin _____ Size of Crank webs _____ Dia. of thrust shaft under collars _____ Dia. of screw _____ Pitch of Screw _____ No. of Blades _____ State whether moveable _____ Total surface _____

No. of Feed pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Bilge pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____

In Engine Room _____ In Holds, &c. _____

No. of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & size _____

Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____

Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line _____

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____

What pipes are carried through the bunkers _____ How are they protected _____

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____

Is the Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record S) Manufacturers of Steel North Bros. Coatesville, Pa.

Total Heating Surface of Boilers 6777 sq. ft. Is Forced Draft fitted NO No. and Description of Boilers Two Water Tube

Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test _____ No. of Certificate _____

Can each boiler be worked separately _____ Area of furnace in each boiler 343 Cu. ft. OIL FIRED No. and Description of Safety Valves to each boiler _____ Are they fitted with easing gear _____

Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 42" Length 11'-11" Material of shell plates Steel

Thickness 1/2" Range of tensile strength 60000 lbs. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams S.R.LAP long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32 Pitch of rivets 2 1/2" 9/16" Gap of plates or width of butt straps 1 1/4" 15"

Per centages of strength of longitudinal joint _____ Working pressure of shell by rules 228 lbs. Size of manhole in shell 15" x 11"

Size of compensating ring Flange Ring 16" No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____

Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____

Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____

Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____

Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____

Material Steel Thickness 19/32" Pitch of stays _____ How are stays secured Ditto Working pressure by rules Approved 200 lbs. Material of stays _____

Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____

Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____

Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____

Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____

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

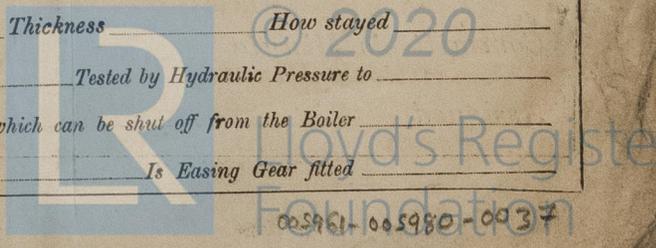
Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type Not fitted Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____

Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____

Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded

No. Retained for duplicate

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
The Babcock & Wilcox Co.

per J. Stenger Marine Dept Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918: Jan'y 14, 21, 24, 30
{ During erection on board vessel ---
{ Total No. of visits

Is the approved plan of main boiler forwarded herewith No.

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
Completion of fitting sea connections Stern tube Screw shaft and propeller
Main boiler safety valves adjusted Thickness of adjusting washers
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
Is an installation fitted for burning oil fuel Yes. 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. If so, state name of vessel.

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

These Boilers have been built under Special Survey and in accordance with plans approved July 18, 1917. The workmanship and materials are both of good quality. The Steam drums & elements have been tested by hydraulic pressure to 400 lbs per sq. inch & found tight & sound. They have now been despatched for fitting on board.

To complete the Survey, the boilers to be re-erected on board & tested by hydraulic pressure. All mounting to be examined & fitted and safety valves to be adjusted under steam.

Certificate (if required) to be sent to

The amount of Entry Fee ... £ : : } When applied for,
Special ... £ : : } 19
Donkey Boiler Fee ... £ : : }
Travelling Expenses (if any) £ : : } When received, 19

J. Hudson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York OCT 15 1918

Assigned See S. Fo. Rpt 2830.



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