

REPORT ON MACHINERY.

No. 14663

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 (Number of Visits) _____
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 _____

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 _____ 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 _____ Dia. of Crank shaft journals _____ as per rule _____ 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 each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
each boiler _____ Mean dia. of boilers 42" Length 11'-11" Material of shell plates Steel
Smallest distance between boilers or uptakes and bunkers or woodwork _____ Thickness 1/2" Range of tensile strength 60000 lbs. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams SRLAP
long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32 Pitch of rivets 2 1/2" 9/16" 1 1/2" or width of butt straps 5 1/4" 1 5/8"
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 9/32" Pitch of stays _____ How are stays secured Ditto Working pressure by rules 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 4 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.

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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 & flues have been tested by hydraulic pressure to 400 lbs per sq in & 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.

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

J. Hudson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York OCT 15 1918

Assigned See S.F. Rpt 2830.



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