

# REPORT ON MACHINERY.

No. 14459A

Received at London Office

Writing Report No. 23<sup>rd</sup> 1917 When handed in at Local Office No. 23<sup>rd</sup> 1917 Port of New York

in Survey held at Bayonne N.J. Date, First Survey Sept 1 1917 Last Survey 19

g. Book. on the New Water Tube Boilers for Texas Steamship Corp. # 10 (Number of Visits)

ster Built at By whom built Tons { Gross Net } When built

ines made at By whom made when made

lers made at Bayonne By whom made Babcock & Wilson Co. when made 1917.

istered Horse Power Owners Port belonging to

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

**GINES, &c.—Description of Engines**

No. of Cylinders No. of Cranks

of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft

he screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

he 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

een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

s are fitted, is the shaft lapped or protected between the liners Length of stern bush

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

rs Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

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

Engine Room In Holds, &c.

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

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

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

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

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

pipes are carried through the bunkers How are they protected

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

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

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

**ERS, &c.—(Letter for record)** Manufacturers of Steel Lukens Iron & Steel Co. Coatesville, Pa.

Heating Surface of Boilers { 9969 Sq. Ft. - Boilers Is Forced Draft fitted No. and Description of Boilers New Water Tube }  
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test No. of Certificate

each boiler be worked separately Area of fire grate in each boiler Oil Burning Furnace 6'-9" x 12'-5 1/2" No. and Description of Safety Valves to

boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

st distance between boilers or uptakes and bunkers or woodwork Mean dia. of boiler 42" Length 14'-7 3/8" Material of shell plates Steel

ess 9/16" Range of tensile strength 60000 lbs. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.I.A.P.

seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32" Pitch of rivets 2 3/4" x 9/16" Lap of plates or width of butt straps inside 14 1/8" outside 9 3/4"

antages of strength of longitudinal joint rivets 95% Working pressure of shell by rules 284 lbs. Size of manhole in shell 15" x 11"

compensating ring Flange 7/16 No. and Description of Furnaces in each boiler Material Outside diameter

of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

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

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

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

al Steel Thickness 19/32" Pitch of stays How are stays secured Dipped ends Working pressure by rules 204 lbs. Material of stays

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

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

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

across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

s of girder at centre Length as per rule Distance apart Number and pitch of stays in each

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

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

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

**HEATER.** Type Tube Date of Approval of Plan 9/7/17 Tested by Hydraulic Pressure to 400 lbs.

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

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

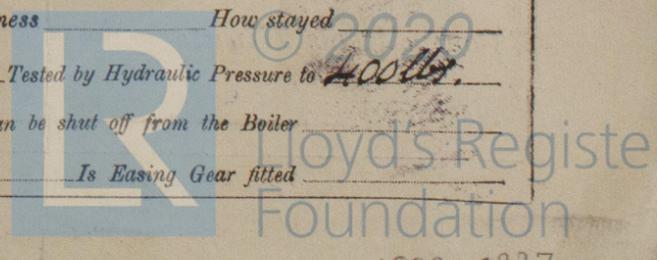
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Sept

Aug

Lloyd's Reg. 61-99 F.Y. 1917

Lloyd's 61-99 F.Y. 1917



*5/5 Steamers & R.H. Co. Report 1166*

**IS A DONKEY BOILER FITTED?**

If so, is a report now forwarded?

**SPARE GEAR.** State the articles supplied:—

The foregoing is a correct description,  
*The Babcock & Wilcox Co.*  
*per J. Steyer Marine Dept Manufacturer.*

Dates of Survey while building  
 During progress of work in shops --  
 During erection on board vessel --  
 Total No. of visits

*Sept. 1-6 Oct. 31 Nov 14*

Is the approved plan of main boiler forwarded herewith *No. 10*

**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 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 9, 1917. The workmanship and materials are both of good quality. The steam drums, elements and super-heaters have been tested by hydraulic pressure to 400 lbs per sq in and found tight and sound. They have now been despatched for fitting on board. To complete the Survey, the boilers to be erected on board & tested by hydraulic pressure. Mountings to be examined & fitted and safety valves to be adjusted under steam.*

Certificate (if required) to be sent to the Committee's Minute.

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 JUL - 1 1919*

Assigned *see Bos. Rpt 1166*



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Lloyd's Register Foundation

Rpt. 13.  
 Port of  
 No. in Reg. Book  
 Owners U.S.  
 Card No.  
 DESCRIPTION  
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 Capacity of  
 Where is Dyna  
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