

REPORT ON BOILERS.

No. 15992
MORIS NOV. 1919

Received at London Office

Rating Report

101

When handed in at Local Office

101

Port of New York

Survey held at

Bayonne N.J.

Date, First Survey

Last Survey

Dec 20 1918

(Number of Visits)

Gross 3659
Tons Not 2266

on the

S.S. Buffalo Bridge

Built at Newark N.J.

By whom built Submarine Boat Corporation

When built 1919

made at Essington Pa.

By whom made Westinghouse Elec. & Mfg. Co.

When made 1919

made at Bayonne N.J.

By whom made Babcock & Wilcox Co.

When made 1918

Horse Power 386

Owners U.S. Shipping Board

Port belonging to Newark N.J.

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens Steel Co

Total Heating Surface of Boilers 5804⁰ Is forced draft fitted Induced No. and Description of

Two Water Tube Working Pressure 200 lb Tested by hydraulic pressure 400 lb Date of test 27 June 1919

Certificate Can each boiler be worked separately yes Area of fire grate in each boiler 87 1/4 sq ft No. and Description of

valves to each boiler Two 3" Area of each valve 7.06 Pressure to which they are adjusted 200 lb

Is fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 42" Length 14' 7 3/8"

Material of shell plates Steel Thickness 1/2" Range of tensile strength 60000 Are the shell plates welded or flanged No

Direction of riveting: cir. seams S.R. lap long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 32" Pitch of rivets 2 3/32" 4 1/16"

Thickness of butt straps 9 3/4" 15" Per centages of strength of longitudinal joint rivets 108 plate 80.1 Working pressure of shell by

43 lb Size of manhole in shell 15" x 11" Size of compensating ring 2" No. and Description of Furnaces in each

Material Outside diameter Length of plain part Thickness of plates Combustion chamber

Direction of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules

Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Area at

Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 1/2"

How are stays secured 42" R Working pressure by rules 200 lb Material of stays Area at smallest part

Supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

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

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

Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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

Pressure of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

By whom made

When made

Where fixed

Working pressure

by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

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

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

per J. H. Hengeler Marine Dept. Manufacturer.

During progress of work in shops - - - 1918: July 5. 6. 7. 8. 10. 11. 12. 13. 14 & daily until 20 Dec
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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Lloyd's Register Foundation

W1402-0058

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been constructed under Special Survey and in accordance with plans approved July 18 1917. The workmanship and material are both of good quality. The steam-drums and sections have been tested by hydraulic pressure to 400 lb per sq inch, and found tight and sound. They have now been despatched for fitting aboard. To complete the survey, the boilers to be re-erected on board, and tested by hydraulic pressure. All mountings to be examined and fitted. Safety-valves to be adjusted under steam.

These Boilers together with Superheaters have been installed aboard The SS Buffalo Bridge under Special Survey and tested satisfactorily to 400 lbs per inch hydraulic pressure. Safety Valves have been adjusted under steam to blow at 200 lb per sq inch and Accumulation test on boilers. Boilers mountings examined and found satisfactory.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

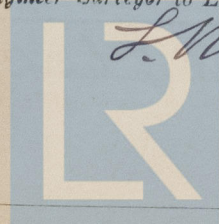
Committee's Minute

New York OCT 1 4 1919

Assigned

See N.Y. Rpt 17517

Alexander MacArthur
Engineer Surveyor to Lloyd's Register of Shipping.
L. MacArthur



Lloyd's Register
Foundation

Rpt. 13.

Port of

No. in
Reg. Book

Owners

Card No.

DESCRIP

Two G

capable

Capacity

Where is

Position

Position

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If vessel

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