

# REPORT ON BOILERS.

No. 15660

re to 400 5.

Boiler yes

filled yes

Received at London Office July 26 1919  
When handed in at Local Office 26 July 1919 Port of New York and Philadelphia  
Survey held at Bayonne N.J. Date, First Survey  
Book.gear and  
of boiler  
for oil  
d gear  
not shoes  
edge  
cating oil  
and pla  
ripples,  
two

on the STEEL SCREW STEAMER "LUXPALILE"

(Number of Visits)

Gross 5753  
Net 3562

Built at Philadelphia

By whom built American International Corp

When built 1919

When made 1919

Mines made at Schenectady N.Y. By whom made General Electric Co.  
Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co MB588  
Horse Power 600 Owners United States Shipping Board  
Emergency Fleet Corporation Port belonging to Philadelphia

## ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Lukens Steel Co

etter for record S.

Total Heating Surface of Boilers 8700

Is forced draft fitted

yes

No. and Description of

Boilers

Three Water Tube

Working Pressure 200 lb

Tested by hydraulic pressure to 400 lb

Date of test 10/3/19

Certificate 299

Can each boiler be worked separately

yes

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

Two direct spring

Area of each valve 7.06

Pressure to which they are adjusted 300 lb

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

42" R

Length 14' 7 3/8"

Material of shell plates

Steel

Thickness 1/2"

Range of tensile strength 60,000

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"

Pitch of rivets 2 3/4" x 9/16"

Up of plates or width of butt straps

9 3/4" x 15"

Per centages of strength of longitudinal joint

rivets

108

Working pressure of shell by

Size of manhole in shell

24 3/4" x 11"

Size of compensating ring

Flanged 7 1/2"

plate

80.1

Working pressure of shell by

No. and Description of Furnaces in each

Boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

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

Diameter at

Smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material Steel

Thickness 19"

Pitch of stays

How are stays secured

42" R

Working pressure by rules

200

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Over 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

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

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

Working pressure of end plates

Area of safety valves to superheater

1"

Are they fitted with easing gear

yes

## VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

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

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

The foregoing is a correct description,

for J. Stenger

Maine Dep

Manufacturer.

Dates of Survey while building  
During progress of work in shops  
During erection on board vessel  
Total No. of visits1918, Mar 6, 14, 15, 18, 19, 21, & daily until 30 Sept/18  
See Report 119.

Is the approved plan of main boiler forwarded herewith

"

"

"

donkey

"

"

"

Lloyd's Register Foundation

WISIS-0142



**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 lbs 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.

Philadelphia

Boilers erected on board, mountings examined and fitted, hydraulic test of 400 lbs applied, and safety valves adjusted under steam to 200 lbs

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

Assigned

New York JUL 29 1919

See Phil Rpt No. 3339

*Alexander Macnair*  
Engineer Surveyor to Lloyd's Register of Shipping.

*J. Blillock*



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Lloyd's Register  
Foundation

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