

REC'D NEW YORK NOV 20 1920

REC'D NEW YORK

Apr. 10-1920

Hull 9

Rpt. 5a.

REPORT ON BOILERS.

No. 3746

TUE. DEC. 7 1920

Received at London Office

Date of writing Report 6 April 1920 When handed in at Local Office

Port of Philadelphia

No. in Survey held at

Cheston Pa

Date, First Survey 15 March 1920

Last Survey 6 April 1920

Reg. Book.

on the

Steamer Colin H Livingston

(Number of Visits 7)

Gross 6071

Net 3781

Master Laurent

Built at

Alexandria Va

By whom built

Virginia SB Company

When built 1920

Engines made at

Hamilton Ohio

By whom made

Hogues Owens & Rentschles Co

When made

1919

Boilers made at

Cheston Pa

By whom made

Sun Shipbuilding Company

When made

1920

Registered Horse Power

2800

Owners

US Shipping Board

Port belonging to Alexandria Va

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Carnegie Steel Co

(Letter for record

(7)

Total Heating Surface of Boilers

8331 sq

Is forced draft fitted

yes

No. and Description of

Boilers

3 S. E. Sertch

Working Pressure

210

Tested by hydraulic pressure to

315

Date of test 6-4-20

No. of Certificate

443

Can each boiler be worked separately

yes

Area of fire grate in each boiler

61.8 sq

No. and Description of

safety valves to each boiler

See 3 1/2 Consolidated

Area of each valve

9.621

Pressure to which they are adjusted

200

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

15.4 in

Length

11.5

Material of shell plates

Steel

Thickness

1 3/8

Range of tensile strength

60000-70000

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DRL

long. seams

TROBS

Diameter of rivet holes in long. seams

1 1/16

Pitch of rivets

20

Lap of plates or width of butt straps

33

Per centages of strength of longitudinal joint

rivets 98.6

plate 92.8

Working pressure of shell by

rules

242

Size of manhole in shell

12 x 16

Size of compensating ring

Flange

No. and Description of Furnaces in each

boiler

3 Union

Material

Steel

Outside diameter

49 3/4

Length of plain part

top

bottom

Thickness of plates

crown

bottom

64

Description of longitudinal joint

Weld

No. of strengthening rings

1

Working pressure of furnace by the rules

210

Combustion chamber

plates: Material

Steel

Thickness: Sides

5/8

Back

3/4

Top

5/8

Bottom

1 1/8

Pitch of stays to ditto: Sides

10 1/4 x 7/4

Back

8 1/4 x 5 1/4

Top 7 1/8 x 7 1/2 If stays are fitted with nuts or riveted heads

both

Working pressure by rules

219

Material of stays

W1

Area at

smallest part

1.997

Area supported by each stay

1.94

Working pressure by rules

219

End plates in steam space: Material

Steel

Thickness

1 1/8

Pitch of stays

10 1/4 x 5 1/4

How are stays secured

D nuts

Working pressure by rules

212

Material of stays

Steel

Area at smallest part

6.216

Area supported by each stay

266

Working pressure by rules

243

Material of Front plates at bottom

Steel

Thickness

1

Material of

Lower back plate

Steel

Thickness

1 1/8

Greatest pitch of stays

13

Working pressure of plate by rules

275

Diameter of tubes

2 1/2

Pitch of tubes

3 1/4 x 3 1/2

Material of tube plates

Steel

Thickness: Front

1

Back

3/4

Mean pitch of stays

10 1/2 x 7 1/2

Pitch across wide

water spaces

13

Working pressures by rules

212

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

9 1/2 x 1 3/4

Length as per rule

35

Distance apart

4 3/4

Number and pitch of Stays in each

4

2

7 1/8

Working pressure by rules

247

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

UPERHEATER. Type

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

The foregoing is a correct description,

Robert H. Hays

Manufacturer.

Sun Shipbuilding Company

Is the approved plan of boiler forwarded herewith

Dates of Survey

During progress of work in shops - -

while building

During erection on board vessel - - -

Aug 27. Sept 16 27. Oct. 15 19 22 1920 Total No. of visits Six

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

These boilers were constructed

under Special Survey in accordance with the approved plan. The workmanship and materials all good. The boilers have been shipped to the Va Shipbuilding Co. to be installed on board a vessel.

Survey Fee £8225.00

When applied for

Apr. 10 1920

OK

Travelling Expenses (if any) £86.00

When received

20.4.1921

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

Committee's Minute New York

NOV 23 1920

Assigned

See Balb. Apr 16 1920 5050

Lloyd's Register
W 389-0190

These boilers have been installed on board the S.S. Calin H Livingston under special sur-
Safety valves have been adjusted under steam to blow at 200 ¹⁶³ per square inch
Boiler mountings examined & found satisfactory

L Norworthy

Rpt. 13.

Port of

No. in
Reg. Book
28048

Owners

Yard No.

DESCRIP

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Capacity

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Position

Position

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Foundation