

REPORT ON BOILERS.

No. 4056
TUE. 19 APR. 1921

Date of writing Report

191

When handed in at Local Office

191

Port of

Received at London Office

No. in Survey held at

Cornwells Pa

Date, First Survey 26 July 1920.

Last Survey 23 March 1921

Reg. Book.

on the New Steel S.S. "San Leon"

(Number of Visits 29)

Gross 6349

Master J. F. Beaton

Built at Wilmington NC

By whom built Carolyn Steel Co 56 St

When built 1920

Engines made at

Hamilton Ohio

By whom made

Hodges, Calkins & Reutchen

When made 1919

Boilers made at

Cornwells Pa

By whom made

Badenhausen Eng.

When made 1920

Registered Horse Power 2800

Owners Eagle Oil Transport Co

Port belonging to London, England

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Lukins Steel Coy.

Letter for record

P

Total Heating Surface of Boilers

9042

Is forced draft fitted

Yes

No. and Description of

Boilers

Three Single ended

Working Pressure 200 lbs

Tested by hydraulic pressure to 350 lbs

Date of test 17/2/1921

No. of Certificate

9

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

15.5 sq

No. and Description of

Safety valves to each boiler

one 3 1/2" Duplex

Area of each valve

19.6 sq

Pressure to which they are adjusted 205 lbs

Are they fitted with easing gear

Yes

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

✓

Least distance between boilers or uptakes and bunkers or woodwork

8"

INSIDE

Mean dia. of boilers 15'-3"

Length 11'-6 3/8"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

60,000 lbs

Are the shell plates welded or flanged

No

Pitch of riveting: cir. seams

D.R. Lap

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

8 3/4"

Pitch of plates or width of butt straps

22 3/4"

Per centages of strength of longitudinal joint

rivets 90.1

Working pressure of shell by

201 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

3'-0 1/2" x 2'-8 1/2"

No. and Description of Furnaces in each

3 Cor

Material Steel

Outside diameter 4'-0 1/4"

Length of plain part

top

Thickness of plates

crown 7/8"

bottom 7/8"

Description of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

208 lbs

Material Steel

Thickness: Sides

2 1/2"

Back

1 3/8"

Top

2 1/2"

Bottom

1 5/8"

Pitch of stays to ditto: Sides

4 1/8" x 4 1/8"

Back

4 1/2" x 4 1/2"

4 1/8" x 8 1/8"

If stays are fitted with nuts or riveted heads riveted heads

Working pressure by rules

213 lbs

Material of stays

Iron

Area at

least part

1.8"

Area supported by each stay

56 1/4"

Working pressure by rules

242 lbs

End plates in steam space: Material Steel

Thickness

1 1/8"

of stays

1 1/2" x 1 1/2"

How are stays secured

Nuts

Working pressure by rules

210 lbs

Material of stays

Steel

Area at smallest part

5.94"

supported by each stay

255"

Working pressure by rules

242 lbs

Material of Front plates at bottom

Steel

Thickness

1 1/8"

Material Steel

Thickness

1 1/8"

Greatest pitch of stays

8" x 14 1/2"

Working pressure of plate by rules

302 lbs

Diameter of tubes

3"

of tubes

4 1/8" x 4 1/8"

Material of tube plates

Steel

Thickness: Front

1 1/8"

Back

1 3/16"

Mean pitch of stays

10 7/8"

spaces

14 3/4"

Working pressures by rules

200 lbs

Girders to Chamber tops: Material Steel

Depth and thickness of

at centre

2 @ 9" x 1"

Length as per rule

34 1/8"

Distance apart

8 1/4"

Number and pitch of Stays in each

4 @ 4 1/4"

Working pressure by rules

228 lbs

Steam dome: description of joint to shell

None

% of strength of joint

meter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

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

Setting of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

Badenhausen Leo

Manufacturer

Plant Engineer

During progress of

work in shops - -

July 26 Aug 16 Sept 10 - 21 Oct 6 13. 20

Is the approved plan of boiler forwarded herewith

During erection on

board vessel - -

Oct 5. 15. 21. Nov 5. 22. Dec 3. 20. Jan 5. 28.

Total No. of visits 29.

ling

board vessel - -

Feb. 4. 12. 26. March 4. 23.

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

The shell plates and end plates

being shipped drilled ready for erecting Combustion Chamber finished ready fitting in boiler Material and workmanship all good. The Boilers will be assembled & finished at Wilmington NC. Savannah Surveyor has been notified above Boilers have been fitted aboard the above vessel in a satisfactory manner and the Safety Valve tested to 205 lbs pressure.

Survey Fee

£ 213.75

When applied for

31st Mar 1921

Travelling Expenses (if any)

£ 67.00

When received

17th Apr 1921

William Bates

J. Adamson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York APR - 5 1921

Assigned

See fax J.E. Apr 389

TUE. 27 MAR. 1923

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FRI. 17 AUG. 1923

Lloyd's Register

Foundation