

REPORT ON BOILERS.

No. 3928

SAT. 12 AUG. 1921

Received at London Office

Date of writing Report

1921

When handed in at Local Office

1921

Port of Philadelphia Pa

No. in Survey held at Wilmington Del

Date, First Survey March 23. 1920 Last Survey Aug 12 1920

Reg. Book.

on the New Steel S.S.T. Fletcher Yarnell

(Number of Visits 13)

Gross

Tons

Net

Master

Built at Fox River Mass.

By whom built

When built

Engines made at

By whom made

When made

Boilers made at Wilmington Del

By whom made Bethlehem Ship Bldg Corp.

When made 1920

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Lukens & Co

Letter for record S

Total Heating Surface of Boilers 8829 sq

Is forced draft fitted

No. and Description of

Boilers 3 SE Scotch Marine

Working Pressure 200

Tested by hydraulic pressure to 300

Date of test 12-8-20

No. of Certificate 480

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Two direct spring

Area of each valve 9.62 sq

Pressure to which they are adjusted

Are they fitted with easing gear

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

Inner

Mean dia. of boilers 15'-0" Length 11'-9"

Material of shell plates Steel

Thickness 1 7/16"

Range of tensile strength 65,000 to 70,000

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DRL

long. seams TRPBS

Diameter of rivet holes in long. seams 1 7/16"

Pitch of rivets 8"

Pitch of plates or width of butt straps 21"

Per centages of strength of longitudinal joint

rivets 96.5

Working pressure of shell by

rules 220

Size of manhole in shell 12" X 16"

Size of compensating ring 35 1/2", 31 1/2", 19 1/16"

No. and Description of Furnaces in each

Boiler 3 Monson

Material Steel

Outside diameter 4'-0"

Length of plain part

top

Thickness of plates

crown 5/8"

Description of longitudinal joint Weld

No. of strengthening rings

Working pressure of furnace by the rules 209

Combustion chamber

plates: Material Steel

Thickness: Sides 2 1/2"

Back 1 1/2"

Top 2 1/2"

Bottom 1 1/2"

Pitch of stays to ditto: Sides 4" X 7 1/2" Back 4" X 7 1/2"

Top 4" X 7 1/2"

If stays are fitted with nuts or riveted heads Rivets less

Working pressure by rules 209

Material of stays Steel

Area at

smallest part 14" X 4"

Area supported by each stay 34.39

Working pressure by rules 226

End plates in steam space: Material Steel

Thickness 1 1/8"

Pitch of stays 6 3/4" X 6 3/4"

How are stays secured D. Nuts

Working pressure by rules 202

Material of stays Steel

Area at smallest part 6.49

Area supported by each stay 280

Working pressure by rules 240

Material of Front plates at bottom Steel

Thickness 3/4"

Material of

Lower back plate Steel

Thickness 1 1/4"

Greatest pitch of stays 13"

Working pressure of plate by rules 209

Diameter of tubes 2 1/2"

Pitch of tubes 3 7/8" X 3 7/8"

Material of tube plates Steel

Thickness: Front 3/4" Back 3/4"

Mean pitch of stays 9.06"

Pitch across wide

water spaces 13"

Working pressures by rules 212

Girders to Chamber tops: Material Steel

Depth and thickness of

rider at centre 10" X 1 1/2"

Length as per rule 34"

Distance apart 7 1/2"

Number and pitch of Stays in each 4-7"

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

SUPERHEATER. 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,

BETHLEHEM STEEL CO. PA. U.S.A.

C.B. Jensen

Manufacturer.

Dates of Survey

During progress of work in shops - -

March 23 April 14 May 23 June 1-14-23 Aug 12 Aug 5-12

Is the approved plan of boiler forwarded herewith Copy.

while building

During erection on board vessel - -

Total No. of visits

GENERAL REMARKS

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

These boilers have been constructed under special survey, and in accordance with the approved plans. The workmanship and materials are good. complete the survey, mountings to be fitted, boilers to be installed on the vessel, and safety valves adjusted under steam.

Creating Fee Phila with 1/3 Mac fee.

Travelling Expenses (if any) \$ 10 : 00

When applied for.

191

When received.

191

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York JUL 26 1921

Assigned

See B.O. 1495

Lloyd's Register Foundation

007563-007571-0111