

Rpt. 5a.

REPORT ON BOILERS.

Received at London Office

THU. NOV. 11 1920

Date of writing Report *Nov 8th* 1920 When handed in at Local Office *Nov 9th* 1920 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at *Wallsend-on-Tyne*Date, First Survey *Aug. 25.*Last Survey *Nov 4th*

1920

Reg. Book.

on the

Steel Boiler, for Contract No. 2482(Number of Visits *8*)

Gross

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

By whom made

When made

Registered Horse Power

92

Owners

Steel

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

John Spencer(Letter for record *5*)Total Heating Surface of Boilers *1380*

Is forced draft fitted

No

No. and Description of

Boilers *One single ended*Working Pressure *180*

Tested by hydraulic pressure to

*360*Date of test *4.11.20*No. of Certificate *9480*

Can each boiler be worked separately

Area of fire grate in each boiler

not fixed

No. and Description of

safety valves to each boiler

none fitted

Area of each valve

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

Mean dia. of boilers

*12-0"*Length *11-0"*Material of shell plates *steel*Thickness *3/32"*Range of tensile strength *28-32*

Are the shell plates welded or flanged

*no*Descrip. of riveting: cir. seams *D. Lap*long. seams *double butt straps**Ends riveted*

Diameter of rivet holes in long. seams

*1 1/8"*Pitch of rivets *4 3/4"*

Lap of plates or width of butt straps

15 5/8"

Per centages of strength of longitudinal joint

rivets *90.0*

Working pressure of shell by

rules *180*

Size of manhole in shell

16 x 12"

Size of compensating ring

flanged

No. and Description of Furnaces in each

boiler *3 furnaces*Material *steel*Outside diameter *32 1/2"*

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint *welded*

No. of strengthening rings

Working pressure of furnace by the rules

193

Combustion chamber

plates: Material *steel*Thickness: Sides *23/32"*Back *23/32"*Top *23/32"*Bottom *1"*

Pitch of stays to ditto: Sides

10 1/2 x 9 3/8"

Back

10 7/8 x 9"

Pitch of stays to ditto: Sides

10 1/2 x 9 3/8"

Back

*10 7/8 x 9"*Top *10 1/2 x 9"* If stays are fitted with nuts or riveted heads*nuts*

Working pressure by rules

180

Material of stays

steel

Area at

smallest part

2.03"

Area supported by each stay

*98.4"*Pitch of stays *18 x 18"* How are stays secured*3. nuts + washers*

Working pressure by rules

185

End plates in steam space: Material

steel

Thickness

1 1/8"

Area at smallest part

5.942"

Area supported by each stay

324"

Working pressure by rules

190

Material of Front plates at bottom

steel

Thickness

3/32"

Material of

Lower back plate

steel

Thickness

3/8"

Greatest pitch of stays

*14 1/2"*Pitch of tubes *4 1/2 x 4 1/2"*Material of tube plates *steel*

Thickness: Front

3/32"

Back

3/4"

Mean pitch of stays

9 1/16"

Pitch across wide

water spaces

14 1/2"

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8 3/4 x 1 1/2"

Length as per rule

32"

Distance apart

9"

Number and pitch of Stays in each

2-10 1/2"

Working pressure by rules

188

Steam dome: description of joint to shell

none

% 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 NORTH EASTERN MARINE ENGINEERING CO., LTD.

The foregoing is a correct description,

Secretary.

Manufacturer.

Dates of Survey

During progress of work in shops

*Aug. 25.**Sept 8.**23.30.**Oct. 4. 18.**Nov. 1. 4.*

Is the approved plan of boiler forwarded herewith

Total No. of visits

8.

GENERAL REMARKS

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

*This boiler has been constructed**under special survey and the materials & workmanship are good & in accordance with the rules requirements. It was originally made for the S.B. Antonina, but is now kept on stock. It is eligible in my opinion to be fitted on a**clased vessel.*

Survey Fee

Travelling Expenses (if any)

When applied for

When received

17.11.20

Nannie Nelson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

not for Committee

TUE. 28 OCT 1930

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Lloyd's Register

Foundation

1999-0117