

t. 5.

REPORT ON BOILERS.

No. 84

REC'D NEW YORK

April 16, 1917

Received at London Office

CLEVELAND, OHIO.

of writing Report 26 March 1917 When handed in at Local Office

191 Port of

in Survey held at New Albany, Ind.

Date, First Survey 15 Feb. 1917 Last Survey 16 March 1917

on the

Engines made at

Built at

By whom built

When built

By whom made

When made

Boilers made at New Albany, Ind. By whom made Chas. Hegewald Co.

When made 1917. 3.

Registered Horse Power

Owners

Port belonging to

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

Letter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

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

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Description of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Gap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets
plate

Working pressure of shell by

rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

Boiler

Material

Outside diameter

Length of plain part

top
bottom

Thickness of plates

coron
bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

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

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

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

Lower 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

water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

VERTICAL DONKEY BOILER—

No. One

Description Vertical Tubular

Manufacturers of steel Wm. C. Smith & Co.

Made at New Albany

By whom made

Chas. Hegewald Co.

When made 1917. 3.

Where fixed on deck

Working pressure 100 lb

tested by hydraulic pressure to 150 lb

Date of test 6. 3. 17

No. of Certificate 77

Fire grate area 18.9 sq

Description of safety valves Spring loaded

No. of safety valves one

Area of each 4.9

Pressure to which they are adjusted 100 lb

If fitted with easing gear Yes

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler 5'-0"

Length 8'-5"

Material of shell plates S.

Thickness 2 1/4"

Range of tensile

strength 28/32

Descrip. of riveting long. seams DBS/7R

Dia. of rivet holes 3/4"

Whether punched or drilled D

Pitch of rivets 6 3/4"

Gap of plates 8 3/8"

Per centage of strength of joint 87

Working pressure of shell by rules 100 lb

Thickness of shell crown plates 1/2"

Radius of do. 7 ft.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top 54"

Bottom 54"

Thickness of furnace plates 3/8"

Description of joint L.S.R.

Working pressure of furnace by rules 100 lb

Thickness of furnace crown

plates 1/2"

Radius of do. 7 ft.

Stayed by Alum Tube

Diameter of uptake 2" Ext.

Thickness of uptake plates 3" x 3"

Thickness of water tubes .095"

The foregoing is a correct description,

CHAS. HEGEWALD CO. Manufacturer

Dates of Survey while building
During progress of work in shops -- 1917. Feb. 15, 27, Mar. 16.
During erection on board vessel ---
Total No. of visits 3.

Is the approved plan of main boiler forwarded herewith

" " " donkey "

Lloyd's Register Foundation

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been constructed under Special Survey. The materials and workmanship employed in its manufacture, so far as can be seen, are sound and good and proved satisfactory under test.

W. Lane

Boiler now satisfactorily fitted on board and safety valve adjusted under steam
John. S. Gardiner

It is submitted that
this vessel is eligible for
THE RECORD. + D.B. 100 %.

3-17-19
JWD
HJD
16/1/19

The amount of Entry Fee .. £ - : : When applied for,
Special .. £ - : : SEP 19 1918
Donkey Boiler Fee .. \$ 25 : 00 : :
Travelling Expenses (if any) \$ 48 : 57 : : When received,
29/11/18

Committee's Minute New York SEP 17 1918

signed

+ D.B. - 100 %.

W. Lane John. S. Gardiner
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



Lloyd's Register
Foundation