

REPORT ON BOILERS.

No.

MON 14 MAY 1917

NEW YORK

April 24 1917

Received at London Office

of writing Report

10

When handed in at Local Office

10

Port of

SEATTLE,

No. in Survey held at *Seattle*

Date, First Survey *Oct 18th 1916*

Last Survey

19

eg. Book.

(Number of Visits

Gross 3911

Net 2490

on the *DONKEY BOILER*, Vessel No. 16 UIWks. s/s "REGULUS",

When built 1917.

Master *P. Svendsen*

Built at *Alameda, Cal.*

By whom built *Union Iron Works Co.*

when made 1917

Engines made at *Alameda, Cal.*

By whom made *Union Iron Works Co.*

when made 1916

Boilers made at *Seattle*

By whom made *Commercial Boiler Works*

Port belonging to *Christiania.*

Registered Horse Power 234

Owners *A.O. Lindvig, Christiania, Norway.*

MULTITUBULAR BOILERS

~~MAIN, AUXILIARY OR~~ DONKEY.

Manufacturers of Steel *Worth Brothers Co.*

Letter for record

Total Heating Surface of Boilers *700 #*

Is forced draft fitted

No. and Description of

Boilers *One Scotch Marine Donkey*

Working Pressure *180 lbs*

Tested by hydraulic pressure to *270 lbs*

Date of test *Nov. 11-1916*

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

Mean dia. of boilers *9'-0 3/16"* Length *9'-0"*

Smallest distance between boilers or uptakes and bunkers or woodwork

Material of shell plates *Steel*

Thickness *13/16"*

Range of tensile strength *28 to 32 tons*

Are the shell plates welded or flanged

Description of riveting: cir. seams *Double-Lap*

long. seams *Triple-Butt*

Diameter of rivet holes in long. seams *1 5/16"*

Pitch of rivets *6 3/8"*

Width of butt straps *14"*

Per centages of strength of longitudinal joint

rivets *98%*

Working pressure of shell by

Boiler *One Morrison*

Material *Steel*

Outside diameter *35 15/16"*

Length of plain part

No. and Description of Furnaces in each

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules *198*

Combustion chamber

Plates: Material *Steel*

Thickness: Sides *7/8"*

Back *7/8"*

Top *7/8"*

Bottom *7/8"*

Pitch of stays to ditto: Sides *7 1/4" x 7 1/4"* Back *7" x 7 1/4"*

Smallest part *1 1/2"*

Area supported by each stay *52.5 sq"*

Working pressure by rules *251*

Material of stays *Steel*

Diameter at

Pitch of stays *16"*

How are stays secured *Double Nuts*

Working pressure by rules *234*

Material of stays *Steel*

Diameter at smallest part *2 5/8"*

Area supported by each stay *256 sq"*

Working pressure by rules *219*

Material of Front plates at bottom *Steel*

Thickness *3/4"*

Material of

Lower back plate *Steel*

Thickness *3/4"*

Greatest pitch of stays *7 1/4" x 7"*

Working pressure of plate by rules *274*

Diameter of tubes *3"*

Pitch of tubes *4" x 4"*

Material of tube plates *Steel*

Thickness: Front *3/4"*

Back *13/16"*

Mean pitch of stays *12"*

Pitch across wide

Water spaces *6"*

Working pressures by rules *210 lbs*

Girders to Chamber tops: Material *Steel*

Depth and thickness of

Order at centre *9 1/2" x 1 1/2"*

Length as per rule *29 7/8"*

Distance apart *8"*

Number and pitch of Stays in each *3 - 7 1/4"*

Working pressure by rules *237*

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

The foregoing is a correct description,
James F. Fowler Manufacturer.

Oct 18-23-26-28

Oct. 18th to Nov. 11th 1916

Nov. 1-4-7-11

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

Dates of Survey
During progress of work in shops - -
while building - -
During erection on board vessel - -

GENERAL REMARKS

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

This boiler has been constructed under special survey in accordance with the approved plan, the material and workmanship are both of good quality and a completion was tested by hydraulic pressure to 270 lbs and found tight and sound. The boiler has been forwarded to San Francisco for installing on the United Engineering works vessel No 16. To complete the survey the boiler to be installed and secured on the vessel, all mounting to be examined and fitted and the safety valves adjusted under steam at 180 lbs working pressure.

Survey Fee £

Travelling Expenses (if any) £

When applied for, 19

When received, 19

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

James F. Fowler, Seattle, Wash

Committee's Minute

New York APR 26 1917

See other report

Assigned

W1157-0192

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