

# REPORT ON BOILERS.

No. 915

Received at London Office

FEB 14 1920

Date of writing Report Oct 30 1919 When handed in at Local Office Oct 30 1919 Port of Seattle Wash U.S.A.

No. in Survey held at Seattle Wash Date, First Survey April 25 1919 Last Survey Oct 25 1919

Reg. Book. on the Dacey Boiler of the 4 Masted Schooner "BLAATINO" (Number of Visits 3) Gross 1526.68 Tons Net 1339.81

Master N.E. Sandberg Built at Seattle W. By whom built Sandstrom Ship Co New York Pipe & Ship Co When built 1919

Engines made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_

Boilers made at Seattle W. By whom made Seattle Boiler Works When made 1919

Registered Horse Power \_\_\_\_\_ Owners American Motor Schooner Co Port belonging to Kristiania

## 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

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by plate

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 Thickness of plates crown 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 Area 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 Area 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 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 \_\_\_\_\_

**VERTICAL DONKEY BOILER**— No. 120 Description Test Multitubular Manufacturers of steel Allan Wood Iron Works

Made at Seattle W. By whom made Seattle Boiler Works When made 1919 Where fixed Rain Dept Working pressure 120

tested by hydraulic pressure to 180 Date of test 29-6-1919 No. of Certificate 120 Fire grate area 16.4 Description of safety valves Spring loaded

No. of safety valves 12 Area of each 3.97 Pressure to which they are adjusted 110 lbs fitted with easing gear yes If steam from main boilers can enter the donkey boiler \_\_\_\_\_

Dia. of donkey boiler 5'-0" Length 9'-0" Material of shell plates Steel Thickness 3/8" Range of tensile strength 60000

Descrip. of riveting long. seams DR. Butt joint Dia. of rivet holes 13/16" Whether punched or drilled drilled Pitch of rivets 6 3/4"

Lap of plating ✓ Per centage of strength of joint Rivets 121 2/3 Working pressure of shell by rules 124 Thickness of shell crown plates 1/2"

Radius of do. Flat No. of Stays to do. Beaded Dia. of Tubes 2" Diameter of furnace Top 4'-6" Bottom 4'-6" Length of furnace 2'-8 1/2"

Thickness of furnace plates 3/8" x 1/2" Description of joint DR. Lap Working pressure of furnace by rules 140 lbs Thickness of furnace crown plates 1/2" Radius of do. Flat Stayed by Tubes beaded Diameter of uptake 24" Thickness of uptake plates 6/16" DR. S.

Thickness of water tubes 4 B.W.C.

The foregoing is a correct description,  
Seattle Boiler Works Manufacturer.  
Frank H. Hopkinson

Dates of Survey while building

During progress of work in shops -- Apr 21 May 29

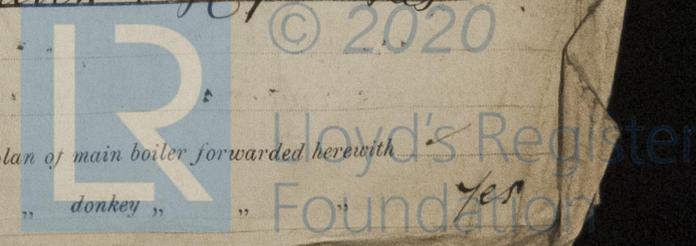
During erection on board vessel --- Oct 25

Total No. of visits 3

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_

" " " donkey " " \_\_\_\_\_

5100-296800-256800



REPORT ON BOILER

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

The Donkey Boiler built under Special Survey in accordance with the approved plans. The materials tested & found in compliance with the requirements of the Society.

Installed on board ship together with the necessary mountings & fittings, tested under steam & found satisfactory - safety valves adjusted.

The workmanship throughout is of good quality, the Boiler & its accessories eligible in my opinion to be classed & noted in the Register Book No DB 10-19 - 120 lbs.

It is submitted that this vessel is eligible for THE RECORD + D.B. 10. 19. 120 lbs.

23/2/20

Certificate (if required) to be sent to

(The Surveys are registered not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	£	✓	:	:	When applied for,
Special	£	✓	:	:	Jan 15 <sup>th</sup> 1920
Donkey Boiler Fee	£	✓	:	:	When received,
Travelling Expenses (if any)	£	✓	:	:	19/1/20

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute New York JAN 27 1920 FRI. 7 MAR. 1924  
Assigned + DB/19 - 120 lbs



Lloyd's Register Foundation