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# REPORT ON BOILERS.

No. 2550

REC'D NEW YORK

August 23 1917

Received at London Office

TUE SEP 11 1917

of writing Report Aug. 13, 1917 When handed in at Local Office

Port of SAN FRANCISCO,

Survey held at Oakland, California

Date, First Survey Nov. 6th, Last Survey July 28th, 1917

Book. (Number of Visits Five.) Gross 7127.23

on the S. S. "FREDERIC R. KELLOGG" Tons Net 4418.95

White Built at Oakland, Cal. By whom built Moore & Scott Iron Works When built 1917

Lines made at Schenectady, N. Y. By whom made General Electric Company When made 1917

Boilers made at Bayonne, N. J. By whom made Babcock & Wilcox Co. When made 1917

Registered Horse Power 434 Owners Pan-American Petroleum & Transport Co. Port belonging to Los Angeles.

## WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Boiler 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

of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of

Boiler valves to each boiler Area of each valve Pressure to which they are adjusted

Boiler they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Boiler least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length

Boiler material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

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

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

Boiler 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

Boiler description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

Boiler Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Boiler If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at

Boiler smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

Boiler of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part

Boiler supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Boiler front back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Boiler of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

Boiler spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

Boiler at centre Length as per rule Distance apart Number and pitch of Stays in each

Boiler Working pressure by rules Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Boiler safely Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Boiler Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Boiler stayed with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Boiler Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

## VERTICAL DONKEY BOILER— No. Description Vertical tubular Manufacturers of steel Lukens Bros., Penn.

Boiler at S. Fo. By whom made Moore & Scott Iron Works When made 1917 Where fixed Stokehold Working pressure 110 lbs.

Boiler Tested by hydraulic pressure to 220 Date of test Mar. 23 No. of Certificate 75 Fire grate area 14.7 sq. ft. Description of safety valves Spring loaded.

Boiler safety valves 2 Area of each 4.9 Pressure to which they are adjusted 110 If fitted with easing gear Yes If steam from main boilers can

Boiler the donkey boiler No. Dia. of donkey boiler 60-7/8" Length 8'10 15/16" Material of shell plates steel Thickness 7/16" Range of tensile

Boiler strength 60000 Descrip. of riveting long. seams D R L Dia. of rivet holes 15/16" Whether punched or drilled drilled Pitch of rivets 3/4"

Boiler of plating 4 5/8" Per centage of strength of joint Rivets 82.4 Plates 93 Working pressure of shell by rules 143 lbs. Thickness of shell crown plates 7/16"

Boiler of do. Flat. No. of Stays to do. - Dia. of stays - Diameter of furnace Top 52" Bottom - Length of furnace 23-5/8"

Boiler thickness of furnace plates 7/16 Description of joint S.R.L. Working pressure of furnace by rules 123 lbs. Thickness of furnace crown

Boiler 7/16" Radius of do. Flat Stayed by 156-2" tubes Diameter of uptake - Thickness of uptake plates -

Boiler thickness of water tubes 2"

The foregoing is a correct description,  
MOORE & SCOTT IRON WORKS,  
By Manufacturer.

During progress of work in shops - - Nov. 6, 1916, Jan. 2, Feb. 24, Mar. 23, 1917.

During erection on board vessel - - July 28, 1917.

Total No. of visits Five

Is the approved plan of main boiler forwarded herewith Yes.

" " " donkey " " " Yes.

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W1452-0033



# REPORT ON BOILERS

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

This boiler was built under Special Survey of materials tested to Rule requirements and workmanship found sound throughout, On completion the boiler was tested under hydrostatic pressure to 165 pounds and found sound. After installation in vessel the safety valves were adjusted under steam as above.

Rpt. 13.

Port of

No. in Reg. Book

Owners Part

Card No.

DESCRIPTION General

Capacity of

Where is Dy

Position of M

Positions of

Captain's

If fuses are

circuits

If vessel is w

Are the fuses

Are all fuses

are perm

Are all switch

Total number

A

B

C

D

E

3 Mas

2

3

If are lights,

Where are th

DESCRIPTION

Main cable can

Branch cables

Branch cables

Leads to lamps

Cargo light cab

DESCRIPTION

Ru

Joints in cable

tape a

are all the join

positions,

are there any

How are the c

Certificate (if required) to be sent to

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

The amount of Entry Fee .. £ :  
Special .. £ :  
Donkey Boiler Fee .. \$25.00 :  
Included in Machy. Rpt. :  
Travelling Expenses (if any) £ :

When applied for,  
Aug. 13, 1917.  
When received,  
153# 10-17 3/10/17

Engineer Surveyor to Lloyd's Register of British & Foreign Ships

Committee's Minute New York AUG 28 1917

Assigned See other Report



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