

REPORT ON BOILERS.

No. 534

REC'D NEW YORK

Nov. 17 1917

Port of Seattle, Wash. U.S.A.

Recorded at London Office

19

No. in Survey held at Seattle & Tacoma

Date, first Survey June 4th

Last Survey September 21st 1917

(Number of Visits 3)

Reg. Book.

ENTRY

on the Wood Ave. Twin Screw S. Mail Sch. 'H. C. HANSEN'

Gross 1660

Net 1308

Master J. P. Hansen

Built at Tacoma

By whom built Seaborn Shipbuilding Co.

When built 1917

Engines made at Oakland, California

By whom made Skandia Pacific Oil Engine Co.

When made 1917

Donkey boiler made at Seattle

By whom made Washington Iron Works

When made 1917

Registered Horse Power 240 each

Owners Capt. H. C. Hansen

Port belonging to Oslo, Norway

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

Up 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

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

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

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

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

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

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

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

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

VERTICAL DONKEY BOILER — No. 1 Description Vertical Submerged tube Manufacturers of steel Luhens Iron & Steel Co.

Made at Seattle By whom made Washington Iron Works When made 1917 Where fixed Aft of forecabin

Working pressure 163 tested by hydraulic pressure to 245 No. of Certificate Fire grate area 125 Description of safety valves Spring loaded

No. of safety valves 1 Area of each 1.76 Pressure to which they are adjusted 160 If fitted with easing gear yes If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler 54" Length 106" Material of shell plates Steel Thickness 1/2" Range of tensile

Strength 60,000 Descrip. of riveting long. seams Double Dia. of rivet holes 13/16" Whether punched or drilled Drilled Pitch of rivets 2 7/8"

Per centage of strength of joint 70.5 Rivets 112 Working pressure of shell by rules 178 Thickness of shell crown plates 7/16"

No. of Stays to do. None Dia. of stays 1 1/8" Diameter of furnace Top 48" Bottom 54" Length of furnace 30 1/2"

Thickness of furnace plates 7/16" Description of joint Lap Working pressure of furnace by rules 163 Thickness of furnace crown

Stays 7/16" Stayed by Diameter of uptake 35" Thickness of uptake plates 1/2" Thickness of water tubes

The foregoing is a correct description,

of Shipping. Washington Iron Works Manufacturer.

Donald Frank Orr

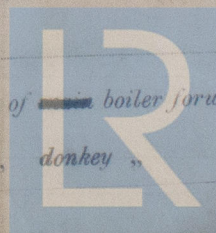
June 5-29

Sept. 21

3

During progress of work in shops
During erection on board vessel
Total No. of visits

Is the approved plan of boiler forwarded herewith Copy only



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W656-0291

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

The donkey boiler, vertical submerged tube type, built and installed under special survey and the material tested in accordance with the approved plan; the workmanship found good. Safety valve adjusted under steam at 160 lbs. sq. in. The boiler eligible, in my opinion, to have the record of **+DB 9.17** in the Register Book in the case of this vessel.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	:	:	19
Donkey Boiler Fee	See Machinery report	:	:	When received.
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute New York NOV 27 1917

Assigned

See Sea. Rpt No. 534

James Fowler
Engineer/Surveyor to Lloyd's Register of British and Foreign Shipping



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