

REPORT ON BOILERS.

No. 2195.

Received at London Office MON. 23 JUN. 1919

191 When handed in at Local Office 191 Port of Kobe

No. in Survey held at Kobe

Date, First Survey 14 Nov. 1918 Last Survey 20 March 1919

on the Steel Single Screw Steamer "Vancouver Maru"

Number of Visits 12

Gross 8888 Tons Net 7259

Master N. Nakamura Built at Kobe

By whom built The Kawasaki Dock Co. Ltd.

When built 1919

Engines made at Kobe

By whom made The Kawasaki Dock Co. Ltd.

When made 1919

Boilers made at do

By whom made do

When made 1919

Registered Horse Power 440

Owner The Kawasaki Kisen Kaisha

Part belonging to Kobe

ULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel North Bros.

Total Heating Surface of Boilers 11320

Is forced draft fitted yes

No. and Description of Boilers One S. to Aux. Boiler

Working Pressure 200 lbs.

Tested by hydraulic pressure to 400 lbs.

Date of test 27/12/18

Area of fire grate in each boiler 330

No. and Description of Safety valves to each boiler Two Direct Spring

Area of each valve 5.930

Pressure to which they are adjusted 205 lbs.

Are they fitted with easing gear yes

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 18"

Mean dia. of boilers 10' : 10" Length 10' : 6"

Material of shell plates Steel Thickness 1"

Range of tensile strength 28 to 32 tons

Are the shell plates welded or flanged No

Description of riveting: cir. seams Double riv. long. seams Double rivet double straps

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

Pitch of rivets 6 3/4 + 3 3/4

No. of plates or width of butt straps 14 1/2" x 1"

Per centages of strength of longitudinal joint rivets 95.2 plate 81.6

Working pressure of shell by rules 200 lbs.

Size of manhole in shell 12" x 16"

Size of compensating ring (flange) 1"

No. and Description of Furnaces in each boiler Two Morrison

Material Steel Outside diameter 10 1/2"

Length of plain part top 9 1/2" bottom 9 1/2"

Description of longitudinal joint Weld

No. of strengthening rings 1

Working pressure of furnace by the rules 236 lbs.

Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4"

Pitch of stays to ditto: Sides 4 x 8 1/2 Back 7 1/2 x 8 1/2

Are stays fitted with nuts or riveted heads nuts

Working pressure by rules 200 lbs.

Material of stays Steel

Area at smallest part 1.78"

Area supported by each stay 66"

Working pressure by rules 212 lbs.

End plates in steam space: Material Steel Thickness 7/8"

How are stays secured Double nuts

Working pressure by rules 202 lbs.

Material of stays Steel

Area at smallest part 5.27

Working pressure by rules 238 lbs.

Material of Front plates at bottom Steel Thickness 3/4"

Material of over back plate Steel Thickness 3/4"

Greatest pitch of stays 13 1/2" at wide

Working pressure of plate by rules 200 lbs.

Diameter of tubes 3 1/4"

Material of tube plates Steel Thickness: Front 7/8" Back 3/4"

Mean pitch of stays 8 3/4"

Pitch across wide spaces 13 1/2" double 5/8"

Working pressures by rules 200 lbs.

Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 (two)

Length as per rule 24"

Distance apart 8"

Number and pitch of Stays in each 3 @ 4"

Working pressure by rules 256 lbs.

Steam dome: description of joint to shell

% of strength of joint

Superheater. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

VERTICAL DONKEY BOILER

No. Description Manufacturers of steel

By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength

Description of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Material of water tubes

The foregoing is a correct description, Kawasaki Dockyard Co., Ltd.

Per. N. Nakamura Secretary.

During progress of work in shops 14, 18, 21, 25 Nov. 11, 20, 25, 27 Dec 1918

During erection on board vessel 10, 14, 19, 20 March 1919

Total No. of visits 12

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " 2496 on sister ship "San Francisco Maru"

2420-2969670292

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

This Auxiliary main boiler has been made + fitted under Special Survey in accordance with the requirements of the Rules + the materials + workmanship are good.

The vessel is eligible in our opinion for the record  
Aux. S. & B. 200 lbs.

Certificate (if required) to be sent to

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

*Excess* Included in Machy. 1st 2 Dec.

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

FRI. 27 JUN. 1919

Committee's Minute

Assigned

*N. L. Jones + A. Watt*  
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation