

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

Reg. Book. on the Steel Single Screw Steamer "Vancouver Maru" (Number of Visits 12)

Registered 410 Tons 4259

Builder Kobe By whom built The Kawasaki Dockyard Co. Ltd. When built 1919

Machinery made at Kobe By whom made The Kawasaki Dockyard Co. Ltd. When made 1919

Boilers made at do By whom made do When made 1919

Registered Horse Power 410 Owner The Kawasaki Kisen Kaisha Part, belonging to Kobe

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Worth Bros. Austral. Austral. Tube Co.

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 1000 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"

Per centages of strength of longitudinal joint rivets 95.2 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 1/16" bottom 9 1/16"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 236 lbs. Combustion chamber thickness: 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"

If stays are 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 cover 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 _____

Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

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 _____

Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____

Material of water tubes _____

The foregoing is a correct description,
Kawasaki Dockyard Co., Ltd. Manufacturer.
 Per. [Signature] 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 Yills 721
 " " " donkey " 2496 on sister vessel "San Francisco Maru"

006454-006467-0292

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.

<i>Extra</i> Included in Machinery Fee			
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

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



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 Foundation