

## REPORT ON BOILERS.

No. 3102.

Received at London Office THU. 28 APR. 1921

of writing Report Mar. 17<sup>th</sup> 1921 When handed in at Local Office10 Port of Kobeo. in Survey held at KobeDate, First Survey March 9<sup>th</sup> 1920 Last Survey Feb. 7<sup>th</sup> 1921

1. Book.

(Number of Visits 23)Gross 5872.89Net 4253.84on the Steel Single Screw Steamer "VICTORIA MARU"ter J. Narayama Built at KobeBy whom built Kawasaki Dockyard Co., Ltd. When built 1921ines made at KobeBy whom made Kawasaki Dockyard Co., Ltd.When made 1921ers made at doBy whom made doWhen made 1921Registered Horse Power N.H.P. 440 Owners Kawasaki Dockyard Co., Ltd. Port belonging to KobeULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY OR ~~DONKEY~~. Manufacturers of Steel Carnegie Steel Co., Illinois Steel Co.,  
Worth Park Co., Midvale Stl. Co., Kawasaki  
Fukui Stl. Co.atter for record S ) Total Heating Surface of Boilers 11320<sup>sq</sup> Is forced draft fitted yes No. and Description ofBoilers One 5. to Auxy. Boiler Working Pressure 200<sup>lbs</sup> Tested by hydraulic pressure to 400<sup>lbs</sup> Date of test 1-9-20of Certificate Lloyd's Test Can each boiler be worked separately yes Area of fire grate in each boiler 33<sup>sq</sup> No. and Description ofsafety valves to each boiler Two Direct Spring Area of each valve 5.93<sup>sq</sup> Pressure to which they are adjusted 205<sup>lbs</sup>they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓allest 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 28-32<sup>tons</sup> Are the shell plates welded or flanged noDescrip. of riveting: cir. seams Mid. Triple long. seams Double Butts riveted Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32 + 3 29/64p of plates or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by plate 84.6es 200<sup>lbs</sup> Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4" flange) 1" No. and Description of Furnaces in eachBoilers Two Morrison's Material steel Outside diameter 40 1/4" Length of plain part top ✓ Thickness of plates crown 9/16" bottom 1/16"Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 218<sup>lbs</sup> Combustion chamberates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 7" x 8 1/2" Back 7 13/16" x 8 1/8"p 7" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 213<sup>lbs</sup> Material of stays steel Area atallest part 1.79<sup>sq</sup> Area supported by each stay 64<sup>sq</sup> Working pressure by rules 223<sup>lbs</sup> End plates in steam space: Material steel Thickness 7/8"Pitch of stays 15 1/4" x 14 1/2" How are stays secured Double nuts Working pressure by rules 202<sup>lbs</sup> Material of stays steel Area at smallest part 5.27<sup>sq</sup>Area supported by each stay 15 1/4" x 14 1/2" Working pressure by rules 248<sup>lbs</sup> Material of Front plates at bottom steel Thickness 3/4" Material ofower back plate steel Thickness 3/4" Greatest pitch of stays 15" approx. Working pressure of plate by rules 237<sup>lbs</sup> Diameter of tubes 3 1/4"Pitch of tubes 4 3/4" mean Material of tube plates steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 8 3/4" Pitch across wideter spaces 13 3/4" doubled 5/8" Working pressures by rules 266<sup>lbs</sup> Girders to Chamber tops: Material steel Depth and thickness ofder at centre 8" x 3/4" (two) Length as per rule 26 5/8" Distance apart 8" Number and pitch of Stays in each 3 @ 7"Working pressure by rules 246<sup>lbs</sup> Steam dome: description of joint to shell None % 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

PERHEATER. Type None 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

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

Secretary

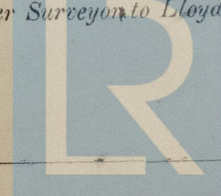
Manufacturer.

Dates During progress of 1920  
Survey work in shops - - Mar. 9, 13, 16; Apr. 1, 6, 20, 26; May 8, 15; June 4, 11;  
while During erection on 1921  
building board vessel - - July 28, 31; Aug. 9, 14, 20, 21; Sept. 1; Jan. 1, 27; Feb. 24, 7Is the approved plan of boiler forwarded herewith yesTotal No. of visits 23GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been made andtested under Special Survey. The Rules have been complied with and thematerials and workmanship found good.This vessel is eligible, it is submitted, for the record One 5. to  
Auxiliary Boiler 200 lbs.Survey Fee ... Included: When applied for, 10<sup>th</sup> Feb 1921Travelling Expenses (if any) with Machy fee When received, 15<sup>th</sup> Feb 1921

Committee's Minute

TUE. MAY. 10 1921

Assigned

A. W. Latt  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation

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