

# REPORT ON BOILERS.

MON. NOV. 1920  
No. 2983

Received at London Office

Date of writing Report 8<sup>th</sup> October 1920 When handed in at Local Office 19 Port of Kobe  
No. in Survey held at Kobe Date, First Survey 9<sup>th</sup> March Last Survey 4<sup>th</sup> Sept 1920  
Reg. Book. on the Steel Single Screw Steamer "OREGON MARU" (Number of Visits 16) Tons { Gross 5872.89  
Net 4253.84  
Master K. Asano Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1920  
Engines made at Kobe By whom made Kawasaki Dockyard Co. Ltd. When made 1920  
Boilers made at do By whom made do When made 1920  
Registered Horse Power N.H.P. 440 Owners Kawasaki Dockyard Co. Ltd. Port belonging to Kobe

MULTITUBULAR BOILERS — ~~MAN~~ AUXILIARY OR DONKEY. — Manufacturers of Steel Illinois Stl. Co. Carnegie Stl. Co. Amer. Steel Pipe Co. John Marshall (furnaces)  
(Letter for record S.) Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of Boilers One S. to Auxy. Boiler Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 2-6-20  
No. of Certificate LLOYD'S TEST W.T. 400 LBS. 2-8-20 A.W. B. Can each boiler be worked separately yes Area of fire grate in each boiler 33 No. and Description of safety valves to each boiler Two Direct Spring Area of each valve 5.93 Pressure to which they are adjusted 205  
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 28-32 tons Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams Doub. rivd. long. seams Double riveted Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32" + 3 29/64"  
Lap 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 rules 200 plate 84.6  
Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4" flange) 1" No. and Description of Furnaces in each boiler Two Morison Material Steel Outside diameter 40 1/4" Length of plain part top 1" Thickness of plates crown 9/16" bottom ✓  
Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 218 Combustion chamber plates: 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"  
Top 7" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 213 Material of stays Steel Area at smallest part 1.79 Area supported by each stay 64 Working pressure by rules 223 End plates in steam space: Material Steel Thickness 7/8"  
Pitch of stays 15 1/4" x 14 1/2" How are stays secured Doub. nuts Working pressure by rules 202 Material of stays Steel Area at smallest part 5.27  
Area supported by each stay 15 1/4" x 14 1/2" Working pressure by rules 248 Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 15" approx. doubled 5/8" Working pressure of plate by rules 237 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 wide water spaces 13 3/4" doubled 5/8" Working pressures by rules 266 Girders to Chamber tops: Material Steel Depth and thickness of girder 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 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

UPERHEATER. 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

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

Dates of Survey { During progress of work in shops -- } Mar. 9, 13, 16; Apr 1, 6, 20, 26; May 5, 14, 22 Is the approved plan of boiler forwarded to Lloyd's Register? yes  
while building { During erection on board vessel -- } July 8, 27; Aug 7, 11, 13; Sept 4. Total No. of visits 16  
Per. J. A. Kane Secretary.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been made + fitted under Special Survey. The Rules have been complied with and the materials + workmanship found good.  
This vessel is eligible, it is submitted, for the record One S. to Auxiliary Boiler 200 lbs.

Survey Fee ... Included with machy fee When applied for, 19...  
Travelling Expenses (if any) £ ... When received, 19...

Committee's Minute TUE. NOV. 23 1920  
Assigned See minute on I.C. rpt. machy.

Alexander Watt 2021  
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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