

# REPORT ON BOILERS.

No. 2420

MON. 24 MAR. 1919

Date of writing Report 27th Jan. 1919 When handed in at Local Office  191 Port of Kobe  
 No. in Survey held at Kobe Date, First Survey 2nd Aug 1918 Last Survey 29 Jan 1919  
 Reg. Book. on the Steel Single Screw Steamer "Chifuku Maru" (Number of Visits 12) Gross 5857 Tons Net 4259  
 Master A. Doi Built at Kobe By whom built Kawasaki Kkyd. Co. Ltd. When built 1919  
 Engines made at Kobe By whom made The Kawasaki Kkyd. Co. Ltd. Yard no. 431 When made 1919  
 Boilers made at do By whom made do When made do  
 Registered Horse Power 436 Owners do Port belonging to Kobe

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Steel Co. Alton W. Ill. U.S.A.

(Letter for record S) Total Heating Surface of Boilers 1132 Is forced draft fitted Yes No. and Description of Boilers One S. E. Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 13/9/18  
 No. of Certificate 400 lbs LLOYD'S TEST Can each boiler be worked separately Yes Area of fire grate in each boiler 33 sq ft No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 5.93 sq in 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 in Mean dia. of boilers 10' 10" Length 10' 6"  
 Material of shell plates Steel Thickness 1 in Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Double riv long. seams Double riv straps Diameter of rivet holes in long. seams 1 1/16 in Pitch of rivets 6 29/32 & 3 29/64  
 Lap of plates or width of butt straps 1 1/2 x 1 in 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 (1 1/4" flange) x 1 in No. and Description of Furnaces in each boiler Two Morrison's Material Steel Outside diameter 40 1/4 in Length of plain part all round Thickness of plates crown 9/16 in bottom 11/16 in  
 Description of longitudinal joint Weld No. of strengthening rings  Working pressure of furnace by the rules 236 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8 in Back 5/8 in Top 5/8 in Bottom 3/4 in Pitch of stays to ditto: Sides 7 x 8 1/2 in Back 7 13/16 x 8 1/2 in  
 Top 7 x 8 in If stays are fitted with nuts or riveted heads Nuts in T.C. Working pressure by rules 201 lbs Material of stays Steel Area at smallest part 1.78 sq in Area supported by each stay 66 sq in Working pressure by rules 242 lbs End plates in steam space: Material Steel Thickness 1/8 in  
 Pitch of stays 15 1/4 x 14 1/2 in How are stays secured Double nuts Working pressure by rules 202 lbs Material of stays Steel Area at smallest part 5.24 sq in  
 Area supported by each stay 15 1/4 x 14 1/4 in Working pressure by rules 238 lbs Material of Front plates at bottom Steel Thickness 3/4 in Material of Lower back plate Steel Thickness 3/4 in Greatest pitch of stays 13 1/2 in wide Working pressure of plate by rules 200 lbs Diameter of tubes 3 1/4 in  
 Pitch of tubes 1 3/8 in Material of tube plates Steel Thickness: Front 1/8 in Back 3/4 in Mean pitch of stays 8 3/4 in Pitch across wide water spaces 13 3/4 in, double 5/8 in 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 in Distance apart 8 in Number and pitch of Stays in each 3 @ 4 in  
 Working pressure by rules 256 lbs Steam dome: description of joint to shell  % 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 \_\_\_\_\_ 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 Kkyd. Co. Ltd.  
J. Ota Kane Manufacturer.

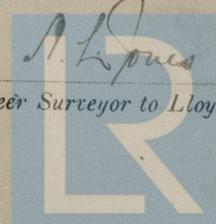
Dates of Survey: During progress of work in shops - 2.8.21 Aug. 2.7.13 Sept 1918 Per. \_\_\_\_\_ Is the approved plan of boiler forwarded Secretary.  
 while building: During erection on board vessel - 12.17.20.25.28.29 Jan 1919 Total No. of visits 12

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

This auxiliary boiler has been made + fitted under special survey in accordance with the Rules + the materials + workmanship are good.  
 The vessel is in my opinion eligible for the record One S. E. aux.

Blw. 200 lbs.  
 Survey Fee ... £ \_\_\_\_\_ When applied for, 191 \_\_\_\_\_  
 Travelling Expenses (if any) £ \_\_\_\_\_ When received, 191 \_\_\_\_\_

Committee's Minute \_\_\_\_\_  
 Assigned See report attached

FRI. 28 MAR. 1919  
 Engineer Surveyor to Lloyd's Register of Shipping.  
  
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