

# REPORT ON BOILERS.

No. 2434

Received at London Office

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 5th August 1918 Last Survey 18 Jan. 1919

Reg. Book. on the Steel Single Screw Steamer "Ryufuku Maru" (Number of Visits 10) Gross 5857 Tons Net 4259

Master H. Kato Built at Kobe By whom built Kawasaki Dockyard 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 do

Registered Horse Power 436 Owners do Port belonging to Kobe

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Man Wood St. Co.

(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 16 Sept 1918

Mask or test: LLOYD'S TEST No. of Certificate 400 LRS 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 Spring loaded Area of each valve 5.93 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 Yes

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

Descrip. of riveting: cir. seams Double riv. long. seams Double riv. straps 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 1 1/2 x 1" Per centages of strength of longitudinal joint rivets 95.2 plate 84.6 Working pressure of shell by rules 200 lbs Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4 + flange) x 1 1/2" No. and Description of Furnaces in each boiler Two Morrison's Material Steel Outside diameter 40 1/4" Length of plain part all round Thickness of plates crown 9/16" bottom 9/16"

Description of longitudinal joint Weld No. of strengthening rings Yes 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 7' x 8 1/2" Back 7 1/2' x 8 1/2"

Top 7' x 8" If stays are fitted with nuts or riveted heads Nuts in C.C. Working pressure by rules 204 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"

Pitch of stays 1 1/4' x 1 1/2' How are stays secured Double nuts Working pressure by rules 202 lbs Material of stays Steel Area at smallest part 5.24

Area supported by each stay 1 1/2' x 1 1/4' Working pressure by rules 238 Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 1 1/2' at wide Working pressure of plate by rules 200 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8" 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', double 5/8" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 1 1/2' (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 Yes % 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 DOCKYARD COMPANY, LTD.  
 J. Wakabayashi Secretary

Dates of Survey: During progress of work in shops 5.12.24 Aug. 6.9.16 Sept 1918 Is the approved plan of boiler forwarded herewith \_\_\_\_\_

while building: During erection on board vessel 10.14.16.18 Jan. 1919 Total No. of visits 10

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. Bln. 200 lbs.

Included in Machy 1st E. fee

Survey Fee ... £ : : When applied for, ... 191

Travelling Expenses (if any) £ : : When received, ... 191

Committee's Minute FRI. 28 MAR. 1919

Assigned See fee ylt attached



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