

# REPORT ON BOILERS.

No. 2380

THU. 6 FEB. 1919

Received at London Office

Date of writing Report 18 Nov. 1918 When handed in at Local Office

Port of Kobe

No. in Survey held at  
Reg. Book.

Kobe

Date, First Survey 12 May 1917 Last Survey 6 Nov. 1918

(Number of Visits 20) Gross 5857  
Tons Net 4259

on the Single Screw Steel Steamer "Raifuku Maru"

Built at Kobe

By whom built The Kawasaki Dry Dock Co. Ltd. When built 1918

Kobe

By whom made The Kawasaki Dry Dock Co. Ltd. When made 1918

Boilers made at do

By whom made do When made do

Registered Horse Power 440

Owners do

Port belonging to Kobe

MULTITUBULAR BOILERS - MANUFACTURERS OF STEEL Alan Wood, Ilminster, Leeds Forge

Letter for record S Total Heating Surface of Boilers 1132 Is forced draft fitted Yes No. and Description of

Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 11 Oct 1917

No. of Certificate 400 LBS 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 2 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 Mean dia. of boilers 10' 10" Length 10' 6"

Material of shell plates Steel Thickness 1" Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Double riv. long. seams Double straps Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 6 29/32

Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by 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

Material Steel Outside diameter 40 1/2 Length of plain part Thickness of plates 9/16

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 236 Combustion chamber

Material Steel Thickness: Sides 5/8 Back 7/8 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 Working pressure by rules 204 Material of stays Steel Area at

Smallest part 1 7/8 Area supported by each stay 66 Working pressure by rules 242 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 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 238 Material of Front plates at bottom Steel Thickness 3/4 Material of

Lower back plate Steel Thickness 3/4 Greatest pitch of stays 13 1/2 at wide Working pressure of plate by rules 200 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 Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 8 x 13 (2) Length as per rule 27 Distance apart 8 Number and pitch of Stays in each 3 @ 7

Working pressure by rules 256 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

PERHEATER. 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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,  
Kawasaki Dry Dock Co., Ltd.,

Manufacturer.

Per. Secretary

Dates During progress of 12.18 May 6 June 23 July 6.20.23 Aug Is the approved plan of boiler forwarded herewith Yes

Survey while building 19.28 Sep. 1.5.11 Oct. 1917 Total No. of visits 20

During erection on board vessel 23.26.28.29 Oct. 3.4.5.6 Nov 1918

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 have been found good. The vessel is eligible in my opinion for the record Star. S. S. B. 200 lbs.

Survey Fee Included in fee for machinery When applied for, 191 Travelling Expenses (if any) 2 When received, 191

FRI. 7 FEB. 1919

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

