

REPORT ON BOILERS.

No. 2419

MON 17 MAR. 1919

Received at London Office

Port of Kobe

Date, First Survey 5 Aug 1918 Last Survey 12 Jan 1919

When handed in at Local Office

No. in Survey held at Kobe

Reg. Book. on the Steel Single Screw Steamed "Keifuku Maru"

Builder Built at Kobe By whom built The Kawasaki Dock 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 Illinois Stl. Co. Man. U.S.A. Co.

Letter for record S. Total Heating Surface of Boilers 11327 Is forced draft fitted Yes No. and Description of Boilers One S. E. Aux. Boiler Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 11.9.18

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 Two direct-spring 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 in 10 in Length 10 in 6 in

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

Description 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 x 3 29/64

Working pressure of shell by rules 84.6

Boiler 2 Motion Susp. Material Steel Outside diameter 40 1/4 Length of plain part 7 1/4 + flange x 1 No. and Description of Furnaces in each

Description of longitudinal joint Weld. No. of strengthening rings Working pressure of furnace by the rules 236 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 in c.c. Working pressure by rules 204 Material of stays Steel Area at

Smallest part 1.78 Area supported by each stay 66 Working pressure by rules 242 End plates in steam space: Material Steel Thickness 7/8

Area supported by each stay 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

Working pressure by rules 238 Material of Front plates at bottom Steel Thickness 3/4 Material of

Power 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 3/8 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 Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 8 x 13/16 (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 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 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.

Per. M. Nakajima

Dates During progress of 5.8.18.29 Aug 7.11 Sept 1918 Is the approved plan of boiler forwarded herewith

Survey while building 22.23.27.28 Dec. 1918. 9.12 Jan 1919 Total No. of visits 12

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

This boiler has been made & fitted under Special Survey, in conformity with the Rule requirements & materials & workmanship have been found good.

The vessel is eligible in my opinion for the notation Aux. S. E. Blr. 200 lbs

Survey Fee Included in £2. Mackay & Co. When applied for, 191

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

Committee's Minute

Assigned

FRI. 21 MAR. 1919

See p. rpt. attached

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

010526 - 010536 - 0160