

# REPORT ON BOILERS.

No. 2310

Date of writing Report 6<sup>th</sup> Oct 1918 When handed in at Local Office ✓ 191 191 Port of Kobe Received at London Office SAT. 30 NOV. 1918

No. in Survey held at Kobe Date, First Survey 18 May 1 Last Survey 24<sup>th</sup> August 1918

Reg. Book. on the Single Screw Steel Steamer "Kofuku Maru" (Number of Visits 19) Gross 5860 Tons } Net

Master \_\_\_\_\_ Built at Kobe By whom built The Kawasaki Dryd Co Ltd When built 1918

Engines made at Kobe By whom made The Kawasaki Dryd Co Ltd When made 1918

Boilers made at do By whom made do When made do

Registered Horse Power 440 Owners The Kawasaki Dryd Co Ltd Port belonging to Kobe

**MULTITUBULAR BOILERS** ~~VIA~~ ~~AUXILIARY~~ ~~OR~~ ~~DONKEY~~ Manufacturers of Steel Illinois Steel Co. Ltd

(Letter for record S) Total Heating Surface of Boilers 1132 Is forced draft fitted yes No. and Description of Boilers On S.S. Aux. boiler Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 11 Oct 1917

No. of Certificate 400 LBS Can each boiler be worked separately ✓ 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 lb

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 boiler 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 Drub Riv. long. seams Strb. Riv. Shaps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 2/32 x 3 2/64

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 lb Size of manhole in shell 12" x 16" Size of compensating ring (1/4 + flang) x 1" plate 84.6

boiler 2 Morrison Material Steel Outside diameter 40 1/2" Length of plain part top Thickness of plates crown bottom 9/16"

Description of longitudinal joint Weld. No. of strengthening rings ✓ Working pressure of furnace by the rules 236 lb Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 3/8" Bottom 3/4" Pitch of stays to ditto: Sides 7 x 8 1/2" Back 7 1/16 x 8 1/8"

Top 4 x 8" If stays are fitted with nuts or riveted heads Nuts in c.c. Working pressure by rules 204 lb 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"

Pitch of stays 15 1/4 x 14 1/2" How are stays secured Drub 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 in wide Working pressure of plate by rules 200 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/4 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 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 Length as per rule 27" Distance apart 8" Number and pitch of Stays in each 3 @ 4"

Working pressure by rules 256 lb 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 \_\_\_\_\_

**SUPERHEATER.** 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 Shakajima Secretary.

Dates During progress of work in shops: 18 May 6 June 23 July 6. 20. 23 Aug. Is the approved plan of boiler forwarded herewith \_\_\_\_\_

while During erection on board vessel: 19. 22. 28 Sep. 1. 5. 11 Oct. 1917

aiding 26 July 1. 3. 6. 8. 15. 24 Aug 1918 Total No. of visits 19

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

This auxiliary boiler has been made & fitted in accordance with the Rule requirements, under special survey, & the materials & workmanship have been found good. The record of pressure 200 lb as for the main boilers is recommended.

Survey Fee ... Included: \_\_\_\_\_ When applied for, \_\_\_\_\_ 191 \_\_\_\_\_

Travelling Expenses (if any) ... In fees for Machinery: \_\_\_\_\_ When received, \_\_\_\_\_ 191 \_\_\_\_\_

Committee's Minute \_\_\_\_\_

signed \_\_\_\_\_

FRI. 6-DEC. 1918

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

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