

REPORT ON BOILERS.

No. 2923.

Received at London Office **FRI. OCT. 4 1920**

of writing Report **Aug. 12th 1920** When handed in at Local Office **Aug 25th 1920** Port of **Kobe**

To. in Survey held at **Kobe** Date, First Survey **Nov 7th 1920** Last Survey **Aug 18th 1920**

g. Book. on the **Steel Single Screw Steamer "THAMES MARU"** (Number of Visits **26**) Tons } Gross **5872.89**
Net **4253.84**

ster **not yet appointed** Built at **Kobe** By whom built **Kawasaki Dockyard Co. Ltd.** When built **1920**

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istered Horse Power **NHP. 440.** Owners **Kawasaki Dockyard Co. Ltd.** Port belonging to **Kobe**

LONGITUDINAL BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel **Illinois St. Co. Carnegie St. Co. Am. Spiral Pipe Co. John Marshall.**

ter for record **S.** Total Heating Surface of Boilers **11320^{sq} ft.** Is forced draft fitted **yes** No. and Description of Boilers **One S. & Aucey. Blr. Working Pressure 200 lbs.** Tested by hydraulic pressure to **400 lbs.** Date of test **22-5-20**

of Certificate **LLOYDS TEST 400 LBS WP 200 LBS 22-5-20 AW R.** Can each boiler be worked separately **yes** Area of fire grate in each boiler **33^{sq} ft.** No. and Description of valves to each boiler **Two Direct Spring** Area of each valve **5.93^{sq} ft.** Pressure to which they are adjusted **205 lbs.**

they fitted with easing gear **yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **✓**

allest distance between boilers or uptakes and bunkers or woodwork **18"** Mean dia. of boilers **10'-10"** Length **10'-6"**

erial of shell plates **Steel** Thickness **1"** Range of tensile strength **28 to 32 tons** Are the shell plates welded or flanged **no**

rip. of riveting: cir. seams **Doub. rivet** long. seams **Doub. straps** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **6 29/32 + 3 29/64**

of plates or width of butt straps **14 1/2" x 1"** 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 boiler **Two Morrison** Material **Steel** Outside diameter **40 1/4"** Length of plain part **top ✓ bottom ✓** Thickness of plates **crown 9 1/8" bottom 9 1/8"**

ription of longitudinal joint **Weld** No. of strengthening rings **✓** Working pressure of furnace by the rules **218 lbs.** Combustion chamber 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"**

If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **213 lbs.** Material of stays **Steel** Area at top part **1.79^{sq} ft.** Area supported by each stay **64^{sq} in.** Working pressure by rules **223 lbs.** End plates in steam space: Material **Steel** Thickness **7/8"**

of stays **15 1/4" x 14 1/2"** How are stays secured **Doub. nuts** Working pressure by rules **202 lbs.** Material of stays **Steel** Area at smallest part **5.27^{sq} ft.**

supported by each stay **15 1/4" x 14 1/2"** Working pressure by rules **248 lbs.** Material of Front plates at bottom **Steel** Thickness **3/4"** Material of back plate **Steel** Thickness **3/4"** Greatest pitch of stays **15" approx.** Working pressure of plate by rules **237 lbs.** Diameter of tubes **3 1/4"**

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 spaces **13 3/4" doubled 5/8"** Working pressures by rules **266 lbs.** Girders to Chamber tops: Material **Steel** Depth and thickness of girder at centre **8" x 3/4" (two)** Length as per rule **26 5/8"** Distance apart **8"** Number and pitch of Stays in each **3 @ 7"**

Working pressure by rules **246 lbs.** Steam dome: description of joint to shell **None** % of strength of joint

eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PREHEATER. Type **None** Date of Approval of Plan Tested by Hydraulic Pressure to

of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

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

Kawasaki Dockyard Co., Ltd.
The foregoing is a correct description,
Per **J. A. Lane** Secretary Manufacturer.

es } During progress of work in shops - - **1919 Nov 7, 29; Dec. 8, 27; 1920 Jan. 9, 19; Feb. 2, 9, 14, 24, 28.** Is the approved plan of boiler forwarded herewith **Yes**
rey } **Apr. 9, 19, 21; May 8, 8, 12, 13, 22.**
le } During erection on board vessel - - **June 10, 12, 14; July 10, 14, 15; Aug 18** Total No. of visits **26**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This Boiler has been made fitted under Special Survey. The Rules have been complied with and the materials & workmanship found good. The vessel is eligible, it is submitted, for the record One S. & Aucey Blr. 200 lbs.**

urvey Fee ... **£ Included** When applied for, 19

travelling Expenses (if any) **with Macky fee** When received, 19

Shipping

Committee's Minute **FRI. OCT. 8 1920** **A. Watt** Engineer Surveyor to Lloyd's Register of Shipping.

