

# REPORT ON BOILERS.

No. 1174.

Received at London Office

FRI. MAY. 10. 1918

Date of writing Report 22<sup>nd</sup> March 1918 When handed in at Local Office 22<sup>nd</sup> March 1918 Port of

NAGASAKI.

No. in Survey held at NAGASAKI.

Date, First Survey 10<sup>th</sup> April 1917 Last Survey 14<sup>th</sup> Feb. 1918

Reg. Book. on the s. s. "Tama Maru"

(Number of Visits 17) Tons { Gross 3042 Net 1832

Master G. Gano Built at Nagasaki By whom built Matsuo Iron Works & Dockyard When built 1918

By whom made Matsuo Iron Works & Dockyard when made 1918

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Owners Tokio Kaisha Kabushiki Kaisha Port belonging to Amagasaki

MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel John Thorneycroft & Sons, Carnegie Steel Co., & Imperial Steel Works.

Heating Surface of Boilers 302.2 sq. ft. Is forced draft fitted No. No. and Description of

Working Pressure 110 lbs. Tested by hydraulic pressure to 220 lbs. Date of test 29.10.17

Boiler be worked separately Area of fire grate in each boiler 23.33 sq. ft. No. and Description of

Area of each valve 7.06 sq. ins. Pressure to which they are adjusted 115 lbs.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Boilers and bunkers or woodwork 23 1/2" Mean dia. of boilers 9' 0" Length 9' 0"

Thickness 3/4" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No.

Long. seams Double riveted Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4 7/8"

Per centages of strength of longitudinal joint rivets 73.24 Working pressure of shell by plate 80.82

Size of compensating ring 32 1/2" x 28 1/2" x 3/4" No. and Description of Furnaces in each

Outside diameter 2' 7" Length of plain part top 37" Thickness of plates crown 1/2" bottom 1/2"

No. of strengthening rings Working pressure of furnace by the rules 182 lbs. Combustion chamber

Back 5" Top 1/2" Bottom 5" Pitch of stays to ditto: Sides 7 1/2" x 9" Back 7 1/2" x 9"

or riveted heads No. Working pressure by rules 136 lbs. Material of stays Steel Diameter at

th stay 67.90" Working pressure by rules 144 lbs. End plates in steam space: Material Steel Thickness 3/4"

Working pressure by rules 140 lbs. Material of stays Steel Diameter at smallest part 2"

Working pressure by rules 173 lbs. Material of Front plates at bottom Steel Thickness 5/8" Material of

Greatest pitch of stays 13 5/16" Working pressure of plate by rules 152 lbs. Diameter of tubes 3"

plates Steel Thickness: Front 5/8" Back 5/8" Mean pitch of stays 9 1/2" Pitch across wide

pressures by rules 162 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

per rule 50 3/4" x 4 1/2" Distance apart 7 1/2" Number and pitch of Stays in each 2 @ 7 1/2"

Water or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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

pressure of shell by rules Diameter of flue Material of flue plates Thickness

in rings Working pressure by rules End plates: Thickness How stayed

Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

Matsuo Iron Works & Dockyard. Manufacturer.

10. May. 2. 23. 28. July 4. 24. 28. Is the approved plan of boiler forwarded herewith Yes.

Sept. 14. 28. Oct. 16. 26. 29.

1918 July. 4. 14. Total No. of visits 17.

Quality of workmanship, opinions as to class, &c. This Donkey Boiler has been

Survey, in accordance with the Rules, and of good material.

is, in my opinion, eligible for record in the Register Book

110 lbs.

Travelling Expenses (if any) £ : : When applied for, 22<sup>nd</sup> March 1918 When received, 23<sup>rd</sup> March 1918

A. O. Williamson

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. MAY. 14. 1918

Assigned See first entry ref. attached



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