

REPORT ON BOILERS.

No. 1259.

Received at London Office

of writing Report 21st Oct. 1919 When handed in at Local Office 21st Oct. 1919 Port of **NAGASAKI**
 No. in Survey held at **NAGASAKI** Date, First Survey 17th June 1919 Last Survey 25th Sept. 1919
 No. of Book. on the **s. s. Delagoa Maru** (Number of Visits 11) Gross 7138 Tons Net 4367
 Master **B. Saito** Built at **Nagasaki** By whom built **Mitsubishi Zosen Kaisha** When built 1919
 Engines made at **Nagasaki** By whom made **Mitsubishi Zosen Kaisha** When made 1919
 Boilers made at **Nagasaki** By whom made **Mitsubishi Zosen Kaisha** When made 1919
 Registered Horse Power 620 Owners **Nippon Yusen Kaisha** Port belonging to **Tokio**

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Illinois Steel Co.**
 Letter for record **S** Total Heating Surface of Boilers 3197.1 sq. ft. Is forced draft fitted **Yes** No. and Description of
 Boilers 1 Cylindrical, Single ended Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 28. 8. 19
 No. of Certificate 96 Can each boiler be worked separately **Yes** Area of fire grate in each boiler 54.31 sq. ft. No. and Description of
 Safety valves to each boiler 2 Spring loaded Area of each valve 7.62 sq. ins. 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 3' 3" Mean dia. of boilers 14' 0" Length 11' 6"
 Material of shell plates **Steel** Thickness 1 3/8" Range of tensile strength 31 " 156 " Are the shell plates welded or flanged **No**
 Description of riveting: cir. seams Double lap long. seams 2 Straps Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 9 1/2" 4 3/4"
 No. of plates or width of butt straps 1' 8 1/2" Per centages of strength of longitudinal joint rivets 92.3 Working pressure of shell by
 rules 212 lbs. Size of manhole in shell 16" x 12" Size of compensating ring 37" x 33" x 1 5/16" No. and Description of Furnaces in each
 boiler 3 Morrison's Bull Material **Steel** Outside diameter 3' 9 1/4" Length of plain part top Thickness of plates crown 5" bottom 8"
 Description of longitudinal joint **Welded** No. of strengthening rings Working pressure of furnace by the rules 247 lbs. Combustion chamber
 plates: Material **Steel** Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 15/16" Pitch of stays to ditto: Sides 11 1/2" x 7 1/4" Back 10 3/8" x 9"
 No. of stays 11 1/2" x 7" If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules 211 lbs. Material of stays **Steel** Area at
 smallest part 2.03 sq. ins. Area supported by each stay 79 sq. ins. Working pressure by rules 231 lbs. End plates in steam space: Material **Steel** Thickness 1 3/32"
 Pitch of stays 1' 5" x 1' 6" How are stays secured **Double nuts** Working pressure by rules 214 lbs. Material of stays **Steel** Area at smallest part 7.67 sq. ins.
 Area supported by each stay 357 sq. ins. Working pressure by rules 227 lbs. Material of Front plates at bottom **Steel** Thickness 31/32" Material of
 lower back plate **Steel** Thickness 31/32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 219 lbs. Diameter of tubes 3 1/2"
 Pitch of tubes 4 1/2" x 14 3/8" Material of tube plates **Steel** Thickness: Front 31/32" Back 27/32" Mean pitch of stays 11 1/8" Pitch across wide
 inter spaces 13 3/4" Working pressures by rules 206 lbs. Girders to Chamber tops: Material **Steel** Depth and thickness of
 order at centre 10 1/4" x 57/64" length as per rule 2' 7 29/32" Distance apart 11 1/2" x 7 3/4" Number and pitch of Stays in each 3 @ 7"
 Working pressure by rules 217 lbs. 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
 No. of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Material of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.
General Manager.

Dates During progress of work in shops 1919 June 17, 23, July 8, 12, 17. Is the approved plan of boiler forwarded herewith **Yes**
 While During erection on board vessel Aug. 27, 28, Sept. 10, 12, 23, 25. Total No. of visits 11.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This main Boiler has been
 constructed under Special Survey, in accordance with the Rules, and of good
 materials and workmanship.

Survey Fee Included in the fees for Special Survey of Machinery When applied for, 191
 Travelling Expenses (if any) £ When received, 191

Committee's Minute TUE. MAR. 9-1920
 signed See fecpt attached

A. S. Williamson
 Engineer Surveyor to Lloyd's Register of Shipping.



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