

REPORT ON BOILERS.

No. 3034.

Received at London Office SAT. 16 APR. 1921

Date of writing Report Dec. 1st 1920 When handed in at Local Office 19 Port of Kobe
No. in Survey held at Kobe Date, First Survey March 9th 1920 Last Survey Nov. 18th 1920
Reg. Book. on the Steel Single Screw Steamer "PACIFIC MARU" (Number of Visits 26) Gross 5872.89 Tons Net 4253.84
Master R. Ishidzuka Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1920
Engines made at Kobe By whom made Kawasaki Dockyard Co. Ltd. When made 1920
Boilers made at do. By whom made do When made 1920
Registered Horse Power N.H.P. 440 Owners Kawasaki Dockyard Co. Ltd. Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Am. Special Pipe Co. & John Marshall (Furnaces)
Letter for record S) Total Heating Surface of Boilers 1132 sq' Is forced draft fitted Yes No. and Description of
Boilers One S. & Auxy Boiler Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 18-6-20
No. of Certificate Lloyd's Test W.P. 200 lb. Can each boiler be worked separately Yes Area of fire grate in each boiler 33 sq' No. and Description of
Safety valves to each boiler Two Direct Spring Area of each valve 5.93 sq" 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 boilers 10'-10" Length 10'-6"
Material of shell plates Steel Thickness 1" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams Ends Double long. seams Double riveted Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 3/32 + 3 29/64
Pitch of plates or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 plate 84.6 Working pressure of shell by
Rules 200 lb. 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's Material Steel Outside diameter 40 1/4" Length of plain part top Thickness of plates crown 9/16 bottom 1/16
Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 218 lb. 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 Working pressure by rules 213 lb. Material of stays Steel Area at
Smallest part 1.79 sq" Area supported by each stay 64 sq" Working pressure by rules 223 lb. End plates in steam space: Material Steel Thickness 7/8"
Pitch of stays 15 1/4" x 14 1/2" How are stays secured Doub. nuts Working pressure by rules 202 lb. Material of stays steel Area at smallest part 5.27 sq"
Area supported by each stay 15 1/4" x 14 1/2" Working pressure by rules 248 lb. Material of Front plates at bottom steel Thickness 3/4" Material of
Over back plate Steel Thickness 3/4" Greatest pitch of stays 15" approx. Working pressure of plate by rules 237 lb. Diameter of tubes 3 1/4"
Pitch 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 lb. Girders to Chamber tops: Material steel Depth and thickness of
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 lb. Steam dome: description of joint to shell None % of strength of joint
Meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
No. of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type None 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,
Per L. A. Kane Manufacturer.
Secretary.

Dates During progress of 1920
Survey work in shops - - - Mar. 9, 13, 16; Apr. 1, 6, 12, 20, 23, 24, 26, 30; May 14, 15, 21;
While During erection on June 1, 4, 10, 11, 18
Building board vessel - - - Sept. 17, 24; Oct. 1, 5; Nov. 10, 16, 18th. 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.
This vessel is eligible, it is submitted, for the record One S. & A.
Auxiliary Boiler 200 lbs.

Survey Fee ... Included: When applied for, 19th Nov 1920
Travelling Expenses (if any) £ With machy. fees. When received, 14th Dec 1920

Committee's Minute FRI. APR. 29 1921
Assigned
Engineer Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation