

REPORT ON BOILERS.

No. 2367

Received at London Office

Date of writing Report 17th Nov 1918 When handed in at Local Office 1918 Port of Kobe WED. 5-FEB. 1919
 Date, First Survey 3rd Aug 1917 Last Survey 4th Novem. 1918
 Survey held at Kobe
 Book. 1 on the Single Screw Steel Steamer "Kifuku Maru" (42 No. 422) Tons } Gross 5852
 } Net
 Built at Kobe By whom built The Kawasaki Dry Dock Co. Ltd When built 1918
 Engines made at Kobe By whom made Kawasaki Dry Dock Co. Ltd When made 1918
 Boilers made at do By whom made do When made do
 Registered Horse Power 440 Owners The Kawasaki Dry Dock Co. Ltd Port belonging to Kobe

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Carnegie S. Co. & Massey S. Co.

Letter for record S Total Heating Surface of Boiler 1132 Is forced draft fitted Yes No. and Description of Boilers One Aux. S. E. Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 1st Oct 1917
 No. of Certificate 400 LBS Can each boiler be worked separately Yes 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 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 18" Mean dia. of boilers 10" 10" Length 10' 6"
 Material of shell plates Steel Thickness 1" Range of tensile strength 28-32 Are the shell plates welded or flanged No.
 Description of riveting: cir. seams Double long. seams Triple Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32, 3 29/32
 Width of butt straps 14 1/2 x 1" Per centages of strength of longitudinal joint 95.2 Working pressure of shell by rules 84.6
 Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4 + flange) x 1" No. and Description of Furnaces in each boiler 2 Morrison's Material Steel Outside diameter 40 1/4" Length of plain part top Thickness of plates bottom 9 1/16"
 Description of longitudinal joint Weld No. of strengthening rings - Working pressure of furnace by the rules 236 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' 8 1/2" Back 7' 13/16" 8 1/8"
 Top 7 x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 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"
 How are stays secured Double 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 at ends 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 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13 (2) Length as per rule 27" Distance apart 8" Number and pitch of Stays in each 3 @ 7"
 Working pressure by rules 256 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 _____

UPPER HEATER. 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.

Dates of Survey 3, 20, 27, 28 Aug 8, 12, 14, 19, 26 Sept 1st Oct 1917 Is the approved plan of boiler forwarded to _____ with _____
 while building 10th Oct. 14, 21, 25, 29 Oct 2 & 4 Nov. 1918 Total No. of visits 17

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been made & fitted in accordance with the Rules under Special Survey & the materials & workmanship have been found good.
The vessel is eligible in my opinion for the next 200 lbs. S. E. Boilers 200 lbs.

Survey Fee Included in 1st E. Machy When applied for, _____ 191 _____
 Travelling Expenses (if any) £ _____ : _____ When received, _____ 191 _____

Committee's Minute _____
 Assigned _____

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