

# REPORT ON BOILERS.

No. 2080  
MON NOV 26 1917.

Received at London Office

of writing Report 16 Sep 1917 When handed in at Local Office ✓ 19 Port of Kobe  
 in Survey held at Narima Dock. Oo. Date, First Survey 14 Febry. Last Survey 5<sup>th</sup> Septem 1917  
 Book. on the Steel Single Screw Steamer "Yaito Maru" (Number of Visits 17) Gross Tons 2726  
M. Tanaka Built at Oo By whom built The Narima Dock Co When built 1917  
 nes made at Kobe By whom made The Kobe Steel Works when made 1917  
 rs made at Oo By whom made The Narima Dockyard when made 1917  
 erted Horse Power 281 Owners Uchida Kisen R. Kaisha Port belonging to Amagasaki

## WATER TUBULAR BOILERS — ~~WATER~~ ~~TUBULAR~~ OR DONKEY. — Manufacturers of Steel Beardmore, Carnegie.

er for record S Total Heating Surface of Boilers 394 Is forced draft fitted No No. and Description of  
 rs One S.E. Working Pressure 120 lb Tested by hydraulic pressure to 240 lb Date of test 14/7/17  
 Certificate LLOYDS Can each boiler be worked separately Yes Area of fire grate in each boiler 11 1/2 No. and Description of  
HYD. TEST valves to each boiler 240 lbs ALJ 14/7/17 Direct spring Area of each valve 2 1/4" diam. Pressure to which they are adjusted 120 lbs  
 ey fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 est distance between boilers or uptakes and bunkers or woodwork 18 Mean dia. of boilers 7' 0" Length 4' 10 3/4" int.  
 ial of shell plates Steel Thickness 1/2" Range of tensile strength 28-32 ton Are the shell plates welded or flanged No  
 ip. of riveting: cir. seams Double long. seams Double riv. Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 1/2 x 2 1/2  
 width of butt straps 8 3/4 x 1/2 Per centages of strength of longitudinal joint rivets 103.1 Working pressure of shell by  
128 lb Size of manhole in shell 11" x 15" Size of compensating ring 5 1/2" x 1/2" all round No. and Description of Furnaces in each  
One plain Material Steel Outside diameter 33 7/8" Length of plain part 30" Thickness of plates 5/16"  
 tion of longitudinal joint Weld No. of strengthening rings One Working pressure of furnace by the rules 141 lb Combustion chamber  
 Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 7 1/2 x 8 Back 7 3/4 x 8  
 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 123 lb Material of stays Steel Diameter at  
 st part 1 1/4" Area supported by each stay 7 3/4 x 8 Working pressure by rules 158 lb End plates in steam space: Material Steel Thickness 5/8"  
 of stays 14" x 12" How are stays secured Drub nuts Working pressure by rules 122 lb Material of stays Steel Diameter at smallest part 2" 9/16"  
 supported by each stay 10" x 14" Working pressure by rules 127 lb Material of Front plates at bottom Steel Thickness 5/8" Material of  
 back plate Steel Thickness 5/8" Greatest pitch of stays 8" Working pressure of plate by rules 130 lb Diameter of tubes 3"  
 of tubes 4" x 4" Material of tube plates Steel Thickness: Front 5/8" Back 5/8" Mean pitch of stays 10" Pitch across wide  
 spaces 1 nest Working pressures by rules 140 lb Girders to Chamber tops: Material Steel Depth and thickness of  
 at centre 6 1/2 x 1" Length as per rule 23" Distance apart 4" Number and pitch of Stays in each 2 @ 7 1/2"  
 g pressure by rules 180 lb Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked  
 ely Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 ned with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
 g pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,  
J. Hirata Manufacturer.

During progress of work in shops -- 14 + 25 Febry. 30 Mar. 1<sup>st</sup> 11<sup>th</sup> 27 April Is the approved plan of boiler forwarded herewith Yes  
 During erection on board vessel -- 14 + 18 May. 5 June 16 + 28 June 10. 14. 20 July 1. 13. 28 Aug. Total No. of visits 17

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
This donkey boiler has been made under Special Survey in accordance with the plan + requirements of the Rules + the materials + workmanship have been found good.

Survey Fee ... yen 80<sup>00</sup> : When applied for, 14 Sep. 1917  
 Shipping Expenses (if any) £ : : When received, 29 Sep. 1917

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

Committee's Minute TUE 4-DEC. 1917

