

# REPORT ON BOILERS.

No. 2721.

Received at London Office

Date of writing Report Feb 12<sup>th</sup> 1920 When handed in at Local Office ✓ 19 Port of KOBE TUE. APR 6 1920  
No. in Surrey held at Kobe Date, First Survey Aug. 13<sup>th</sup> 1919 Last Survey Jan. 23<sup>rd</sup> 1920  
Reg. Book. on the Steel Single Screw Steamer "HOLLAND MARU" (Number of Visits 15) Tons { Gross 5869.86  
Net 4266.26  
Master M. KINOSHITA Built at Kobe By whom built Kawasaki Dockyard Co., Ltd. When built 1820  
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 Kisen Kabushiki Kaisha Port belonging to Kobe

ULTITUBULAR BOILERS—~~MAIN~~ AUXILIARY OR ~~DONKEY~~—Manufacturers of Steel Illinois Steel Co., Carnegie Stl. Co.  
same. Spiral Pipe Co.

Letter for record S. Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of  
Boilers One S. & Auscy. Boiler Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 2-12-19  
of Certificate LLOYDS TEST Can each boiler be worked separately Yes Area of fire grate in each boiler 330 No. and Description of  
Safety valves to each boiler Two Direct Spring Area of each valve 5.93 Pressure to which they are adjusted 205 lbs  
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

Description of riveting: cir. seams Double rivet long. seams Double straps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32 x 3 29/64  
No. of plates or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by  
plate 84.6

Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4" flange) 1" No. and Description of Furnaces in each  
Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part ✓ Thickness of plates 9/16"  
crown 9/16"  
bottom ✓

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 218 lbs Combustion chamber  
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"

Stays are fitted with nuts or riveted heads nuts Working pressure by rules 213 lbs Material of stays Steel Area at  
test part 1.79 Area supported by each stay 64 Working pressure by rules 223 lbs End plates in steam space: Material Steel Thickness 7/8"

How are stays secured Double nuts Working pressure by rules 202 lbs Material of stays Steel Area at smallest part 5.27  
of stays 15 1/4 x 1 1/2" Doubling straps 10 1/2 x 7/8" Working pressure by rules 248 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of  
back plate Steel Thickness 3/4" Greatest pitch of stays 15" approx Working pressure of plate by rules 237 lbs Diameter of tubes 3 1/4"

Mean pitch of stays 8 3/4" Pitch across wide  
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" double Working pressures by rules 266 lbs 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 lbs Steam dome: description of joint to shell None % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
Working pressure of shell by rules Crown plates Thickness How stayed

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler None  
Pressure to which each is adjusted Is Easing Gear fitted

Is Easing Gear fitted ✓  
Kawasaki Dockyard Co., Ltd.  
The foregoing is a correct description,  
Per J. O. Kawano Secretary Manufacturer.

During progress of work in shops - Aug. 13, 25; Sept. 11; Oct. 8; Nov. 6, 10, 13, 22, Dec. 2 Is the approved plan of boiler forwarded herewith Yes  
During erection on board vessel - Dec. 12, 17, 27; Jan. 7, 22, 23<sup>rd</sup> Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
The Boiler has been made and fitted under Special Survey.  
The Rules have been complied with + the materials + workmanship  
ind good. The vessel is eligible, it is submitted, for the record  
ne S. & Auxiliary Boiler 200 lbs.

Survey Fee ... Included in Machinery Fee When applied for Jan. 28<sup>th</sup> 1920  
Travelling Expenses (if any) ... When received Feb 2<sup>nd</sup> 1920

Committee's Minute See first entry report  
FRI. APR 9 1920  
Alexander Watt.  
Engineer Surveyor to Lloyd's Register of Shipping.

