

REPORT ON BOILERS.

No. 2647

FR 2-JAN 1920

Received at London Office

Date of writing Report Nov 14th 1919 When handed in at Local Office 19 Port of Kobe

No. in Survey held at Kobe Date, First Survey June 13th Last Survey Nov. 3rd 1919

Reg. Book. on the Steel Single Screw Steamer "France Maru" (Number of Visits 15) Tons Gross 5863
Net 4263

Master T. OKI. Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1919

Engines made at Kobe By whom made Kawasaki Dockyard Co. Ltd. when made 1919

Boilers made at do By whom made do when made 1919

Registered Horse Power N.H.P. 440 Owners Kawasaki Kisen Kabushiki Kaisha Port belonging to Kobe

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Steel Co, Carnegie Steel Co, Amer. 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. & Auxury. Boiler Working Pressure 200lb. Tested by hydraulic pressure to 400lb. Date of test 18-8-19

No. of Certificate LLOYD'S 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 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 Doub. rivet long. seams Double straps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32 + 3 29/64

Lap of plates or width of butt straps 1 1/2" x 1" Per centages of strength of longitudinal joint ricets 95.2 plate 84.6 Working pressure of shell by rules 200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (1 1/4" + flange) 1" No. and Description of Furnaces in each boiler Two Morison Material Steel Outside diameter 40 1/4 Length of plain part 60 Thickness of plates crown 9/16 bottom 9/16

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 236 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 1/8 x 8 1/8

Top 7" x 8" If stays are fitted with nuts or riceted heads nuts Working pressure by rules 204 lb. Material of stays Steel Diameter at smallest part 1.78" Area supported by each stay 66" Working pressure by rules 242 lb. End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 15/4 x 14/2 How are stays secured Doub. nuts Working pressure by rules 202 lb. Material of stays Steel Diameter at smallest part 5.27"

Area supported by each stay 15/4 x 14/2 Working pressure by rules 238 lb. 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 wide Working pressure of plate by rules 200 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 water spaces 13 3/4 doubled 5/8 Working pressures by rules 200 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 (two) Length as per rule 24" Distance apart 8" Number and pitch of Stays in each 3 @ 4"

Working pressure by rules 256 lb. Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately

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

If stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness	How stayed

Working pressure of end plates 256 lb. Area of safety valves to superheater Are they fitted with easing gear

Kawasaki Dockyard Co., Ltd.
The foregoing is a correct description,
Per J. O. Watt Secretary. Manufacturer.

Dates of Survey } During progress of work in shops - 1919 June 13, 25, 26; July 31; Aug. 4, 11, 18 Is the approved plan of boiler forwarded herewith No Same as 3/s. Italy Maru Rpt. 2633.
while building } During erection on board vessel - Oct. 2, 6, 22, 23, 24, 27, 29., Nov. 3 Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Boiler has been made + fitted under Special Survey.
The Rules have been complied with + the materials + workmanship found good.
This vessel is eligible, it is submitted, for the record One S. & Auxiliary Boiler 200 lbs.

Survey Fee Included in Machinery When applied for, Nov 7th 1919.
Travelling Expenses (if any) 1st entry Fees. When received, Nov 13th 1919.

a Watt.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE JAN. 6 - 1920

Assigned See machinery report

