

K 461 Port Said Maru

5.

REPORT ON BOILERS.

No. 2589

Port of Kobe

Received at London Office

19

Survey held at Kobe

Date, first Survey 10th March Last Survey 1st Aug 1919.

(Number of Visits 19.)

Tons ^{Gross} 5860
_{Net} 4260

on the Steel Single Screw Steamer "Port Said Maru"

Builder K. MURAKAMI Built at Kobe By whom built The Kawasaki Dockyard Co., Ltd. When built 1919

Boilers made at Kobe By whom made The Kawasaki Dockyard Co., Ltd. when made 1919

Boilers made at do By whom made do. when made 1919

Registered Horse Power NHP 440. Owners The Kawasaki Kisen Kabushiki Kaisha Port belonging to Kobe

WATER-TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Carnegie Steel, Illinois Steel, Amer. Special Pipe Works.

Number for record S. Total Heating Surface of Boilers 11320^{sq} ft Is forced draft fitted yes No. and Description of Boilers One S. & Aux. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 2-7-19

of Certificate LLOYD'S TEST 400 LBS 2-7-19 Can each boiler be worked separately yes Area of fire grate in each boiler 33^{sq} ft No. and Description of Valves to each boiler Two Direct Spring Area of each valve 5.93^{sq} ft 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 18ⁱⁿ Mean dia. of boilers 10'-10ⁱⁿ Length 10'-6ⁱⁿ

Material of shell plates Steel Thickness 1ⁱⁿ Range of tensile strength 28 to 32^{tons} Are the shell plates welded or flanged no

Description of riveting: cir. seams Doub. rivet long. seams Doub. straps Diameter of rivet holes in long. seams 1 1/16ⁱⁿ Pitch of rivets 6 3/8 + 3 2/8ⁱⁿ

of plates or width of butt straps 1 1/2ⁱⁿ x 1ⁱⁿ Per centages of strength of longitudinal joint 95.2 Working pressure of shell by plate 84.6

Size of manhole in shell 12ⁱⁿ x 16ⁱⁿ Size of compensating ring (1 1/2ⁱⁿ + flange) No. and Description of Furnaces in each Two "Morison" Material Steel Outside diameter 10 1/2ⁱⁿ Length of plain part 9 1/2ⁱⁿ Thickness of plates 9/16ⁱⁿ

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 236 lbs. Combustion chamber plates: Material Steel Thickness: Sides 5/8ⁱⁿ Back 5/8ⁱⁿ Top 5/8ⁱⁿ Bottom 3/4ⁱⁿ Pitch of stays to ditto: Sides 7 x 8 1/2ⁱⁿ Back 4 1/2 x 8 1/2ⁱⁿ

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Diameter at smallest part 1 7/8ⁱⁿ Area supported by each stay 66^{sq} in Working pressure by rules 212 lbs. End plates in steam space: Material Steel Thickness 7/8ⁱⁿ

How are stays secured Doub. nuts Working pressure by rules 202 lbs. Material of stays Steel Diameter at smallest part 5/2ⁱⁿ Area supported by each stay 15 1/2 x 1 1/2ⁱⁿ Working pressure by rules 238 lbs. Material of Front plates at bottom Steel Thickness 3/4ⁱⁿ Material of cover back plate Steel Thickness 3/4ⁱⁿ Greatest pitch of stays 1 3/2ⁱⁿ at side Working pressure of plate by rules 200 lbs. Diameter of tubes 3 1/2ⁱⁿ

Material of tube plates Steel Thickness: Front 1/8ⁱⁿ Back 3/4ⁱⁿ Mean pitch of stays 8 3/4ⁱⁿ Pitch across wide

Water spaces 13 3/4ⁱⁿ doubled Working pressures by rules 200 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 8 x 13/16 (two) Length as per rule 24ⁱⁿ Distance apart 8ⁱⁿ Number and pitch of Stays in each 3 @ 4ⁱⁿ

Working pressure by rules 256 lbs. 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

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

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear P.T.O.

VERTICAL DONKEY BOILER

No.	Description	Manufacturers of steel
Made at	By whom made	When made Where fixed
Working pressure tested by hydraulic pressure to	No. of Certificate	Fire grate area Description of safety valves
No. of safety valves	Area of each	Pressure to which they are adjusted
Can steam from main boilers enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength
Descrip. of riveting long. seams	Dia. of rivet holes	Whether punched or drilled
Pitch of rivets	Cap of plating	Per centage of strength of joint
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.
No. of Stays to do.	Dia. of stays	Diameter of furnace Top Bottom
Length of furnace	Thickness of furnace plates	Description of joint
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes

The foregoing is a correct description,

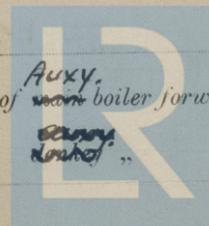
Per J. Takane Manufacturer.

Secretary, Mar 10; May 26; June 10, 13, 24, 25; July 2.

Dates of Survey while building July 23, 26; Aug 1.

Total No. of visits 10

Is the approved plan of Auxy. boiler forwarded herewith yes



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W1303-0180

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

This Boiler has been made and fitted under Special Survey. The Rules have been complied with and the materials and Workmanship found good. The Vessel is eligible, it is submitted, for the Record One S. & aux. Blv. 200 lbs. *AW*

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minutes.)

The amount of Entry Fee...	} <i>Included in Mch. 15th list Fees.</i>	When applied for.
Special		19
Donkey Boiler Fee ...	£ :	When received.
Travelling Expenses (if any) £	:	19

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

Committee's Minute **FRI. 17. OCT. 1919**

Assigned



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