

REPORT ON BOILERS.

No. 1021

6161 3301 701

Port of Kobe

Received at London Office

No. in Survey held at Kobe
Reg. Book.

Date, first Survey June 13th Last Survey Oct 14th 1919
(Number of Visits 14.)

Gross 5859
Net 4259
Tons

on the Steel Single Screw Steamer "Italy Maru"

Master S. ORII. 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 Works.

Letter for record S. Total Heating Surface of Boilers 1132^{sq} Is forced draft fitted yes No. and Description of Boilers One 5 to Auxery. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 15-8-19.

No. of Certificate LLOYDS TEST 400 LBS WP 200 WL R. Can each boiler be worked separately yes Area of fire grate in each boiler 33^{sq} No. and Description of safety valves to each boiler Two Direct Spring Area of each valve 5.93^{sq} 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 to 32^{long} Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Doub. riv. long. seams Doub. 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 95.2 Working pressure of shell by rules 200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4 + flange) 1" No. and Description of Furnaces in each boiler Two Morrison Material Steel Outside diameter 10 1/4" Length of plain part 9 1/2" Thickness of plates 9 1/16"

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 5/8" 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

Top 7" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Diameter at smallest part 1.78" Area supported by each stay 66^{sq} Working pressure by rules 212 lbs. End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 15 1/4 x 14 1/2 How are stays secured Doub. nuts Working pressure by rules 202 lbs. Material of stays Steel Diameter at smallest part 5.27

Area supported by each stay 15 1/4 x 14 1/2 Working pressure by rules 238 lbs. 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 lbs. Diameter of tubes 3 1/4"

Pitch of tubes 1 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 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 (two) Length as per rule 27" Distance apart 8" Number and pitch of Stays in each 3 @ 7"

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 ✓

holes: Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

If 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

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 If fitted with easing gear If steam from main boilers can enter the donkey boiler

strength Descrip. of riveting long. seams Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Lap of plating Per centage of strength of joint Rivets Plates 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 Diameter of uptake Thickness of uptake plates Thickness of water tubes

Kawasaki Dockyard Co., Ltd.
The foregoing is a correct description,
Secretary Manufacturer.

Dates of Survey while building
During progress of work in shops - - - 1919 June 13, 25, 28, 31; Aug 8, 15;
During erection on board vessel - - - Sept 2, 6, 8, 11; Oct 1, 3, 7, 14.
Total No. of visits 14.

Is the approved plan of boiler forwarded herewith Yes
Boiler plan same as for S.S. Cape Town Maru (Rpt. 2622)
" " " S.S. Port Said Maru (Rpt. 2589)

010526 - 010536 - 0018

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.
 The vessel is eligible, it is submitted for the record.
 One 5 b. Auxiliary Boiler 200 lbs.

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee...	Included in machinery 1st entry fees.	When applied for, 19
Special ...	£	When received, 19
Donkey Boiler Fee ...	£	
Travelling Expenses (if any) £		

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

TUE. 23 DEC. 1919

Committee's Minute

Assigned



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