

REPORT ON BOILERS.

No.

Port of Kobe

Received at London Office

No. in Survey held at
Reg. Book.

Date, first Survey

Last Survey

(Number of Visits 14.)

Tons

Gross 5859

Net 4259

on the Steel Single Screw Steamer "Italy Maru"

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 Kaisha Port belonging to Kobe

MULTITUBULAR BOILERS—MAN, AUXILIARY OR DONKEY. Manufacturers of Steel Illinois Steel Co., Carnegie Steel Co. & Amer. Spiral Pipe Wks.

Letter for record S. Total Heating Surface of Boilers 1132 Is forced draft fitted yes No. and Description of

Boilers One 5 to Auxury 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 HP 200 WL R. Can each boiler be worked separately yes Area of fire grate in each boiler 33 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.

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 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 14 1/2" x 1" Per centages of strength of longitudinal joint 95.2 Working pressure of shell by plate 84.6

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

boilers Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part top ✓ Thickness of plates 9 1/16" bottom ✓

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" 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 1/6 (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 ✓ Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes 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 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 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

Lap of plating Per centage of strength of joint Rivets 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 Kawasaki Dockyard Co., Ltd. Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

Secretary. Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

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) £		

Committee's Minute

Assigned

TUE. 23 DEC. 1919

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



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