

# REPORT ON BOILERS.

No. 2587.

Port of Kobe

Recorded at London Office

No. in Survey held at Kobe

Date, first Survey 18th Feb.

Last Survey 17th July 1919

(Number of Visits 11)

on the Steel Single Screw Steamer "Naples Maru" Tons { Gross 5860 Net 4260

ster N. MARUYAMA Built at Kobe By whom built The Kawasaki Dockyard Co. Ltd. When built 1919

engines 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

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

etter for record S Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of

Boilers One S. & C. Aux. Boiler Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 25-4-19

of Certificate 440 YDS 400 LBS 25-4-19 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 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

Description of riveting: cir. seams Doub. rivd long. seams Doub. rivd Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 3/4 + 3 1/4

Up 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 plate 84.6

Size of manhole in shell 12" x 16" Size of compensating ring (4 1/2" flange) No. and Description of Furnaces in each

Boiler Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part 9' 5" Thickness of plates 9 1/2"

Description of longitudinal joint Weld No. of strengthening rings 1 Working pressure of furnace by the rules 236 lb. 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 1/2 x 8 1/2

Top 7 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lb. Material of stays Steel Diameter at

Smallest part 1 1/8" Area supported by each stay 66" Working pressure by rules 242 lb. End plates in steam space: Material Steel Thickness 1 1/8"

Pitch of stays 15 1/2 x 1 1/2 How are stays secured Doub. nuts Working pressure by rules 202 lb. Material of stays Steel Diameter at smallest part 5 1/2"

Area supported by each stay 15 1/2 x 1 1/2 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 1 1/2 mean Material of tube plates Steel Thickness: Front 1 1/8" Back 3/4" Mean pitch of stays 8 3/4" Pitch across wide

Water spaces 13 1/2 doubled 5/8 Working pressures by rules 200 lb. Girders to Chamber tops: Material Steel Depth and thickness of

Order 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 236 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

Plates 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 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

Gap 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 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

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

Manufacturer.

Per J. O. K. 1919. Secy 18, 28; Mar 3, 29; Apr. 8, 16, 25;

Dates of Survey while building During erection on board vessel June 30; July 7, 12, 17.

Total No. of visits 11

Is the approved plan of

AUX boiler forwarded herewith Yes Same as for J.S. GLASGOW MARU Ref. No. 2528



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 5. to Aux. Bln. 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 Minute.)

The amount of Entry Fee...	£	Included in	When applied for.
Special ...	£	Machy.	19.
Donkey Boiler Fee ...	£	Spec. Survey.	When received.
Travelling Expenses (if any) £	£	Fees.	19.

Committee's Minute

TUE 14 OCT. 1919

Assigned

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



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Foundation