

REPORT ON BOILERS.

No. 2530

Received at London Office

Date of writing Report 191 When handed in at Local Office 191 Port of Kobe
No. in Survey held at Kobe Date, First Survey 28 Dec 1918 Last Survey 26 Apr. 1919
Reg. Book. on the Steel Single Screw Steamer "Singapore Maru" (Number of Visits 13) Gross 5859 Tons Net 4260
Master H. Kouchi 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 Owners The Kawasaki Kisen Kaisha Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois St. Co. Amer. Spiral Tube Co

Letter for record S. Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of Boilers One 3.6 Aux. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 5/3/19
No. of Certificate 409 LRS 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 5.930 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 Double rivet long. seams Double straps Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 6 3/4 + 3 3/4
lap of plates or width of butt straps 1 1/2 x 1 Per centages of strength of longitudinal joint rivets 95.2 plate 81.6 Working pressure of shell by rules 200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (flange) 1" No. and Description of Furnaces in each boiler Two "Morrison" Material Steel Outside diameter 10 1/2 Length of plain part top 9 bottom 16 Thickness of plates crown 9 bottom 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 4 x 8 1/2 Back 4 1/2 x 8 1/2
If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Area at smallest part 1.48 How are stays secured Double nuts Working pressure by rules 202 lbs. Material of stays Steel Area at smallest part 5.27
Pitch of stays 1 1/2 x 1 1/2 How are stays secured Double nuts 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 widest 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 1 3/4 double 5/8 Working pressures by rules 200 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 1 3/16 (two) Length as per rule 27 Distance apart 8 Number and pitch of Stays in each 3 @ 7"
Working pressure by rules 256 lbs. Steam dome: description of joint to shell % of strength of joint
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted
VERTICAL DONKEY BOILER— No. Description Manufacturers of steel
Made at By whom made When made Where fixed Working pressure
Tested by hydraulic pressure to Date of test 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
No. of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
Diam. 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
Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
Thickness of water tubes

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

During progress of work in shops - 28 Dec 1918 25.30 Jan. 4.7.12.15.18.24 Feb. 5 March 2021
During erection on board vessel - 16.19.26 April 1919
Total No. of visits 13
Is the approved plan of main boiler forwarded herewith N/A Rpt. No 2528 on S.S. "Singapore Maru"
008288-008295-0044

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

This boiler has been made & fitted on board under Special Survey. The Rules have been complied with & the materials & workmanship are good.

The vessel is eligible, it is submitted, for the notation 1st S. E. Bk. 20.

Rpt. 13.

REPORT

Port of *No*
No. in Reg. Book *on the*
Built at *The Reg*
Owners *450*
Yard No. *450*

DESCRIPTION OF DY

Two sets of automatic cut 8" dia. 6" str

Capacity of Dynamo

Where is Dynamo fixed

Position of Main Switch

Positions of auxiliary switch

deck, 1 on a

Main switch

If cut outs are fitted on

circuits *Yes*

If vessel is wired on the

Are the cut outs of non-ox

Are all cut outs fitted in e

are permanent instr

Are all switches and cut-o

Total number of lights p

A *1 1 4*

B *1 3*

C *3 1*

D *2*

E

2 Mast head light

2 Side light

7

If are lights, what protec

Where are the switches

DESCRIPTION OF CABLES

Main cable carrying *1 1*

Branch cables carrying *2*

Branch cables carrying *1*

Leads to lamps carrying *2*

Cargo light cables carrying

DESCRIPTION OF INSULATION

Conductor

rubber and t

chemical action

Joints in cables, how made

protected with

Are all the joints of cable

made in bunkers, car

Are there any joints in or

How are the cables led th

any additional

Certificate (if required) to be sent to

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

<i>Inclined in Spec. Sur Machy Fees</i>			
The amount of Entry Fee .. £	:	:	When applied for.
Special £	:	:	19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:	19.....

Committee's Minute

FRI. 8-AUG. 1919

Assigned

See Minute on

attached report

A. L. Jones & A. Watt.
Engineer Surveyor to Lloyd's Register of Shipping.



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