

REPORT ON BOILERS.

No. 2572

Received at London Office
Date of writing Report 15th Aug 1919 When handed in at Local Office 191 Port of Kobe
No. in Survey held at Kobe Date, First Survey 15th Sep 1919 Last Survey 19 June 1919
Reg. Book. on the Steel Single Screw Steamer "Brazil Maru" (Number of Visits 12) Tons { Gross 5859 Net 4260
Master Built at Kobe By whom built 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 440 Owners The Kawasaki Kisen Kaisha, Ltd. Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Iron Works, Am. Iron Works
Letter for record S) Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of Boilers One 3. & Aux. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 14 April 1919
No. of Certificate Lloyd's Test No. 138 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 Doub. riv. long. seams Double rivet Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 6 3/32 + 3 3/16
Lap of plates or width of butt straps 14 1/2 x 1 Per centages of strength of longitudinal joint rivets 95.2 plate 84.6 Working pressure of shell by rules 200 lbs. Size of manhole in shell 12 x 16 Size of compensating ring (7 1/2 + flange) 1 No. and Description of Furnaces in each boiler Two Morrison Material Steel Outside diameter 10 1/2 Length of plain part top ✓ bottom ✓ Thickness of plates crown 9 1/16 bottom 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 1/16 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 Area at smallest part 1.78 Area supported by each stay 66 Working pressure by rules 242 End plates in steam space: Material Steel Thickness 1/8
Pitch of stays 15 1/2 x 14 1/2 How are stays secured Doub. nuts Working pressure by rules 202 Material of stays Steel Area at smallest part 5.24
Area supported by each stay 15 1/2 x 14 1/2 Working pressure by rules 238 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 1/2 mean Material of tube plates Steel Thickness: Front 1/8 Back 3/4 Mean pitch of stays 8 3/4 Pitch across wide water spaces 13 3/4 doub 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 24 Distance apart 8 Number and pitch of Stays in each 3 @ 4
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

UPERHEATER. 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
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
Radius of do. 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. Ota Kane Secretary.
Dates of Survey { During progress of work in shops - - 15th Sep. 4. 24. 28 Mar. 5. 9. 12. 14 April
{ During erection on board vessel - - - June 6. 9. 16. 19. 1919
{ Total No. of visits 12.
Is the approved plan of main boiler forwarded herewith With Reg. No. 2338 on 28th Mar. 1919
" " " donkey " " No. 11, "Shanghai" Foundation
15/2 4/3 24/3 28/3 5/4 9/4 12/4 14/4 006819-006830-0013

Port of *M*
No. in on the *Tr*
Reg. Book Built at
Owners *The Ra*
Yard No. *452*

DESCRIPTION OF

Two sets
off vertical
8" dia. 6
Capacity of Dynamo
Where is Dynamo fi
Position of Main Su
Positions of auxiliar
deck, 1 on
on each
If cut outs are fitted
circuits *4*
If vessel is wired on
Are the cut outs of n
Are all cut outs fitted
are permanent
Are all switches and
Total number of lig
A *1*
B *1*
C *3*
D *2*
E
2 Mast head
2 Side
7
If are lights, what p

DESCRIPTION OF

Main cable carrying
Branch "
Branch cables carryi
"
Branch cables carryi
Leads to lamps carry
Cargo light cables car

DESCRIPTION OF

Conductor
tape. Cable
steel arm
Joints in cables, how
with water
Are all the joints of
made in bunker
Are there any joint
How are the cables
additional

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

This boiler has been made & fitted under special survey in accordance with the Rule requirements & the materials & workmanship are good.

It is submitted that the vessel is eligible for the notation Aux S.E. Br. 200 W.

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 .. £ <i>inc. Machij.</i>	When applied for, .. 19
Special £ <i>Special Survey</i>	When received, .. 19
Donkey Boiler Fee £ <i>per.</i>	
Travelling Expenses (if any) £	

Committee's Minute

Assigned

TUE 7-OCT. 1919

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



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Foundation