

REPORT ON BOILERS.

No. 2478

Port of Kobe

Received at London Office 10.11.1919

No. in Survey held at Kobe Date, first Survey 9th Oct. 1918 Last Survey 10th March 1919
Reg. Book. (Number of Visits 20.)

on the Steel Single Screw Steamer "Washington Maru" Gross 5858 Tons Net

Master Built at Kobe By whom built The Kawasaki Dock Co. Ltd. When built

Engines made at Kobe By whom made The Kawasaki Dock Co. Ltd. when made

Boilers made at Do. By whom made Do. when made

Registered Horse Power 110 Owners Do. Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Steel, New York, Carnegie, Amer. Spiral Pipe Works.

Letter for record S. Total Heating Surface of Boilers 11320 Is forced draft fitted Yes No. and Description of Boilers One S. & A. aux. boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 100 lbs. Date of test 24.12.18

No. of Certificate 400 LBS 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 5.93 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 28-32 Are the shell plates welded or flanged No.

Description of riveting: cir. seams Double riv. long. seams Double riv. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 6 3/32 + 3 29/64

Gap of plates or width of butt straps 1 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 (1 1/2 + flange) 1" No. and Description of Furnaces in each boiler Two Morrison Material Steel Outside diameter 40 1/2 Length of plain part top bottom Thickness of plates crown 9 1/16 bottom

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 236 lbs. Combustion chamber

Stays: 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 lbs. Material of stays Steel Diameter at smallest part 1.48 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 Double 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 4 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 double 5/8 Working pressures by rules 200 lbs. Girders to Chamber tops: Material Steel Depth and thickness of order at centre 8 x 1 3/16 (two) Length as per rule 24 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

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

Description 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, Per. J. D. Kane Manufacturer.

Dates During progress of work in shops - - - Secretary. 9th 12.16.18 Oct. 4. 6. 11. 14. 22 Nov. 5. 9. 16. 20. 24 Dec. 1919

Survey while building 24. 26. 27 Feb. 1. 3. 10 March 1919

Total No. of visits 20

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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

This auxiliary main boiler has been made & fitted under Special Survey in accordance with the requirements of the Rules & the materials & workmanship are good.

The vessel is eligible in our opinion for the record
Ans. S. P. B. 200 lbs.

A. L. Jones & A. Watt.

RECEIVED

RECEIVED

VERTICAL DONKEY BOILER

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: | When applied for, |
| Special ... in ... Mchry: Spec. | 19 |
| Donkey Boiler Fee ... | When received, |
| Travelling Expenses (if any) £ | 19 |

A. L. Jones & A. Watt

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

Committee's Minute

FRI. 6-JUN. 1919

Assigned

See Abt' fe. 1/1 2178



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