

REPORT ON BOILERS.

No. 2550

Received at London Office

of writing Report 191 When handed in at Local Office 191 Port of Kobe
 in Survey held at Osaka Date, First Survey 7th Nov. 1918 Last Survey 23rd June 1919
 Book. on the Twin Screw Steel Steamer "Amazon Maru" (Number of Visits 12) Gross 4440 Tons Net 4823
 ter N. Kobayashi Built at Osaka By whom built The Osaka Iron Works Ltd. When built 1919
 ines made at Osaka By whom made The Osaka Iron Works Ltd. When made 1919
 ers made at do By whom made do When made do
 istered Horse Power 655 Owners The Osaka Shosen Kaisha Port belonging to Osaka

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Paul & Co. Scottish Tube Co. John Marshall & Co.

ter for record S. Total Heating Surface of Boilers 13910' Is forced draft fitted yes No. and Description of Boilers One S. & Aux. Blr. Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 23rd Dec '18

of Certificate 400 lbs. Can each boiler be worked separately yes Area of fire grate in each boiler 39.1 No. and Description of Safety valves to each boiler Two Spring loaded Area of each valve 2 1/2" dia. Pressure to which they are adjusted 205 lbs.

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 15" Mean dia. of boilers 12' 0" Length 11' 6"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Description of riveting: cir. seams Double riv. long. seams Triple riv. straps Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4" + 1 3/8"

width of butt straps 1' 4 1/2" x 1 1/2" Per centages of strength of longitudinal joint rivets 91.8 Working pressure of shell by rules 85.0

Size of manhole in shell 12" x 16" Size of compensating ring 2' 10" x 3' 2" x 1 1/2" No. and Description of Furnaces in each boiler Two "Deighton" Material Steel Outside diameter 3' 11 1/2" Length of plain part top 5/8" Thickness of plates bottom 5/8"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 212 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 7/8" Pitch of stays to ditto: Sides 8 3/4" x 8 1/2" Back 9" x 8"

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If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 214 lbs. Material of stays Steel Area at smallest part 1.79 sq" Area supported by each stay 7.1 sq" Working pressure by rules 214 lbs. End plates in steam space: Material Steel Thickness 1 1/4"

How are stays secured Double nuts Working pressure by rules 214 lbs. Material of stays Steel Area at smallest part 6.33

Area supported by each stay 1.72 x 1.7 Working pressure by rules 220 lbs. Material of Front plates at bottom Steel Thickness 1" Material of lower back plate Steel Thickness 1" Greatest pitch of stays 1 1/2" wide sp. Working pressure of plate by rules 200 lbs. Diameter of tubes 3 1/4"

Pitch of tubes 1 1/2" x 1 3/8" Material of tube plates Steel Thickness: Front 1" Back 7/8" Mean pitch of stays 1 1/2" Pitch across wide

Water spaces 1 1/4" Working pressures by rules 206 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 10 1/2" x 7/8" (2) Length as per rule 3 1/2" Distance apart 9" Number and pitch of Stays in each 3 @ 8"

Working pressure by rules 232 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 -

Percentage 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,

J. Yemuda Manufacturer.



Dates of Survey while building: During progress of work in shops -- Nov. 7. 9. 13. 25. Dec 17 19 23 1918
 During erection on board vessel --- May 29 June 4. 9. 16. 23 1919
 Total No. of visits 12.

Is the approved plan of main boiler forwarded here with this Report ✓
 " " " donkey " " ✓

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

This boiler has been built under Special Survey in accordance with the requirements of the Rules & the materials & workmanship are good. The vessel is eligible in my opinion for the record S. E. Ave Als 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	When applied for.
Special ..	Making Spec19.....
Donkey Boiler Fee ..	Survey fee:	When received.
Travelling Expenses (if any) £	:19.....

A. L. Jones Y. Jo. assist.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute
Assigned

TUE SEP 9 - 1975



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