

REPORT ON BOILERS.

No. 3102.

Received at London Office THU. 28 APR. 1921

of writing Report Mar. 17th 1921 When handed in at Local Office 10 Port of Kobe

o. in Survey held at Kobe Date, First Survey March 9th 1920 Last Survey Feb. 7th 1921

Book. on the Steel Single Screw Steamer "VICTORIA MARU" (Number of Visits 23) } Gross 5872.89
Tons } Net 4253.84

Builder N. Narayama Built at Kobe By whom built Kawasaki Dockyard Co., Ltd. When built 1921

Lines made at Kobe By whom made Kawasaki Dockyard Co., Ltd. When made 1921

Boilers made at do By whom made do When made 1921

Registered Horse Power N.H.P. 440 Owners Kawasaki Dockyard Co., Ltd. Port belonging to Kobe

ULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY OR ~~DONKEY~~. Manufacturers of Steel Carnegie Steel Co., Illinois Steel Co.,
Worth Park Co., Midvale Stl. Co., Kawasaki
Fukui & Ntko.

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

Boilers One 5. to Auxy. Boiler Working Pressure 200^{lbs} Tested by hydraulic pressure to 400^{lbs} Date of test 1-9-20

of Certificate Lloyd's Test 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 28-32^{tons} Are the shell plates welded or flanged no

Description of riveting: cir. seams Mid. Treble long. seams Treble riveted Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32 + 3 29/64

Spacing of plates or width of butt straps 14 1/2" x 1" Percentages of strength of longitudinal joint rivets 95.2 Working pressure of shell by plate 84.6

Size of manhole in shell 200^{lbs} Size of compensating ring (7 1/4" + flange) 1" No. and Description of Furnaces in each

Boiler Two Morrison's Material steel Outside diameter 40 1/4" Length of plain part top Thickness of plates crown 9/16"
bottom bottom 7/16"

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 218^{lbs} 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 13/16" x 8 1/2"

Top 7" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 213^{lbs} Material of stays steel Area at

smallest part 1.79⁰ Area supported by each stay 64⁰ Working pressure by rules 223^{lbs} End plates in steam space: Material steel Thickness 7/8"

How are stays secured Doub. nuts Working pressure by rules 202^{lbs} Material of stays steel Area at smallest part 5.27⁰

Area supported by each stay 15 1/4" x 14 1/2" Working pressure by rules 248^{lbs} Material of Front plates at bottom steel Thickness 3/4" Material of

lower back plate steel Thickness 3/4" Greatest pitch of stays 15" approx. Working pressure of plate by rules 237^{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

inter spaces 13 3/4" doubled 5/8" Working pressures by rules 266^{lbs} Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 8" x 3/4" (two) Length as per rule 26 5/8" Distance apart 8" Number and pitch of Stays in each 3 @ 7"

Working pressure by rules 246^{lbs} Steam dome: description of joint to shell None % 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 _____

SUPERHEATER. Type None 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 _____

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

Dates During progress of 1920 work in shops - Mar. 9, 13, 16; Apr. 1, 6, 20, 26; May 8, 15; June 4, 11; Is the approved plan of boiler forwarded herewith yes

while building During erection on 1921 board vessel - July 28, 31; Aug. 9, 14, 20, 21; Sept. 1; Jan. 1, 27; Feb. 24, 7 Total No. of visits 23

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been made and

tested under Special Survey. The Rules have been complied with and the

materials and workmanship found good.

This vessel is eligible, it is submitted, for the record One 5. to

Auxiliary Boiler 200 lbs.

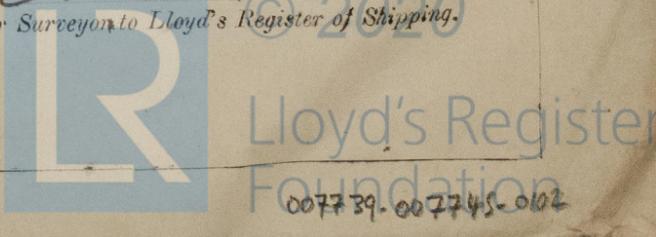
Survey Fee ... Included When applied for, 10th Feb 1921

Travelling Expenses (if any) with Machy fee When received, 15th Feb 1921

Committee's Minute TUE. MAY. 10 1921

Assigned _____

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



5.18
20.24
Jan. 1.20
yes
yes
-12-
6-9-
-1-2-
LLOYD'S
16-7-20
AWB
LLOYD'S
6-9-20
AWB