

## REPORT ON BOILERS.

No. 2803.

Received at London Office

MON. JUN 14 1920

Writing Report 28<sup>th</sup> Apr. 1920 When handed in at Local Office

19 Port of Kobe

Survey held at Kobe

Date, First Survey 3<sup>rd</sup> Sept 1919 Last Survey 27<sup>th</sup> April 1920

Book.

(Number of Visits 23.)

Gross 5869.86  
Net 4266.26

on the Steel Single Screw Steamer "CHINA MARU"

S. Karaki Built at Kobe

By whom built Kawasaki Dockyard Co., Ltd. When built 1920

es made at Kobe

By whom made Kawasaki Dockyard Co., Ltd.

When made 1920

s made at do

By whom made do

When made 1920

ered Horse Power N.H.P. 440

Owners The Kawasaki Kisen Kaisha, Ltd.

Port belonging to Kobe

ILLINOIS STL. CO. CARNEGIE STL. CO.

AM. SPIRAL PIPE CO.

TITUBULAR BOILERS ~~MAN~~ AUXILIARY OR DONKEY

Manufacturers of Steel

for record S. Total Heating Surface of Boilers 1132<sup>sq</sup> Is forced draft fitted yes No. and Description of

ONE S. E. AUXY. BOILER Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 16-2-20

Certificate LLOYD'S TEST  
WT. 400 LBS  
WP. 200 - Can each boiler be worked separately yes Area of fire grate in each boiler 33<sup>sq</sup> No. and Description ofvalves to each boiler TWO DIRECT SPRING Area of each valve 5.93<sup>sq</sup> Pressure to which they are adjusted 205 lbs.

ey fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

est distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10'-10" Length 10'-6"

ial of shell plates STEEL Thickness 1" Range of tensile strength 28 to 32 TONS Are the shell plates welded or flanged No

ip. of riveting: cir. seams DOUB. RIV. long. seams DOUBLE STRAPS Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 3/32" 3 3/4"

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

200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4" FLANGE) 1" No. and Description of Furnaces in each

TWO MORISON Material STEEL Outside diameter 40 1/4" Length of plain part top Thickness of plates crown 9/16" bottom

ption of longitudinal joint WELD 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 1/8 x 8 1/8"

1" x 8" If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 213 lbs. Material of stays STEEL Area at

st part 1.79<sup>sq</sup> Area supported by each stay 64<sup>sq</sup> Working pressure by rules 223 lbs. End plates in steam space: Material STEEL Thickness 7/8"of stays 15 1/4 x 14 1/2" How are stays secured DOUB. NUTS Working pressure by rules 202 lbs. Material of stays STEEL Area at smallest part 5.27<sup>sq</sup>

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

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"

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

spaces 13 3/4" DOUB. 5/8" Working pressures by rules 266 lbs. Girders to Chamber tops: Material STEEL Depth and thickness of

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"

ing pressure by rules 246 lbs. Steam dome: description of joint to shell NONE % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

RHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

f Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

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

1919 1920 Secretary.

During progress of work in shops - - - Sept. 3, 15; Oct. 9, 14, 16, 23; Dec. 13; Jan. 16, 22, 24, 26, 27, 28.

During erection on board vessel - - - Feb. 2, 6, 13, 16. Feb. 26; Mar. 10, 22, 30; Apr. 6, 27. Total No. of visits 23

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

and fitted under special Survey. The Rules have been complied with

materials and workmanship found good. The vessel is eligible

it is submitted, for record one S. E. Auxiliary Boiler 200 lbs.

Survey Fee ... Included in: When applied for, 13<sup>th</sup> Apr. 1920Travelling Expenses (if any) Mch. fee When received, 20<sup>th</sup> Apr. 1920.

Committee's Minute FRI. JUN 18 1920

Signed See fee rpt attached

Alexander Watt.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

009182 - 009191 - 0231