

REPORT ON BOILERS.

MON. NOV. 15 1920
No. 2983

Received at London Office

Date of writing Report 8th October 1920 When handed in at Local Office 19 Port of Kobe
 No. in Survey held at Kobe Date, First Survey 9th March Last Survey 4th Sept 1920
 Reg. Book. on the Steel Single Screw Steamer "OREGON MARU" (Number of Visits 16) Gross 5872.89 Tons
 Net 4253.84
 Master K. Asano Built at Kobe By whom built Kawasaki Dockyard Co. When built 1920
 Engines made at Kobe By whom made Kawasaki Dockyard Co., Ltd. When made 1920
 Boilers made at do By whom made do When made 1920
 Registered Horse Power N.H.P. 440 Owners Kawasaki Dockyard Co., Ltd. Port belonging to Kobe

MULTITUBULAR BOILERS — ~~MAIN~~ AUXILIARY OR DONKEY. — Manufacturers of Steel Illinois Stl. Co., Carnegie Stl. Co., Amer. Steel Pipe Co., John Marshall (furnaces)

(Letter for record S.) Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of Boilers One S. to Auxy. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 2-6-20

No. of Certificate LLOYD'S TEST W.T. 400 LBS. 2-8-20 A.W. B. Can each boiler be worked separately yes Area of fire grate in each boiler 33 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 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Doub. rivd. long. seams Double riveted Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32 + 3 29/64

Lap of plates or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by rules 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 boiler Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part top 95.2 bottom 84.6 Thickness of plates crown 9/16 bottom 9/16

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 218 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 13/16" x 8 1/8"

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 1.79 Area supported by each stay 64 Working pressure by rules 223 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 Doub. nuts Working pressure by rules 202 lbs. Material of stays steel Area at smallest part 5.27 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. doubled 5/8" 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 water 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

UPERHEATER. 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

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

Dates of Survey 1920 During progress of work in shops Mar. 9, 13, 16; Apr 1, 6, 20, 26; May 5, 14, 22 Is the approved plan of boiler forwarded yes
 while building July 8, 27; Aug 7, 11, 13; Sept 4. Total No. of visits 16

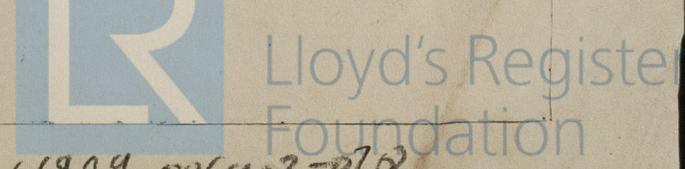
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been made + fitted under special Survey. The Rules have been complied with and the materials + workmanship found good.

This vessel is eligible, it is submitted, for the record One S. to Auxiliary Boiler 200 lbs.

Survey Fee ... Included with machy fee When applied for, ... 19
 Travelling Expenses (if any) £ ... When received, ... 19

Committee's Minute TUE. NOV. 23 1920
 Assigned See minute on G.C. rpt. machy.

Alexander Watt 2021
 Engineer Surveyor to Lloyd's Register of Shipping.



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