

REPORT ON BOILERS.

No. 2420

MON. 24 MAR. 1919

Date of writing Report 27th Jan. 1919. When handed in at Local Office

Received at London Office

Port of Kobe

No. in Survey held at
Reg. Book.

Kobe

Date, First Survey 2nd Aug 1918 Last Survey 29 Jan 1919

(Number of Visits 12)

Gross 5857

Tons Net 4259

Master A. Doi

Built at Kobe

By whom built Kawasaki Kkyd. Co. Ltd. When built 1919

Engines made at Kobe

By whom made The Kawasaki Kkyd. Co. Ltd.

When made 1919

Boilers made at do

By whom made do

When made do

Registered Horse Power 436

Owners do

Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Steel Co. Alton W. D. S. H. C.

(Letter for record S) Total Heating Surface of Boilers 1132 Is forced draft fitted Yes No. and Description of

Boilers One S. E. Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 13/9/18

No. of Certificate 400 lbs. Can each boiler be worked separately Yes Area of fire grate in each boiler 33 sq. ft. No. and Description of

safety valves to each boiler Two Spring loaded Area of each valve 5.93 sq. in. 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 to 32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Double riv. long. seams Triple riv. straps 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 plate 84.6 Working pressure of shell by

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

boiler Two Morrison's Material Steel Outside diameter 40 1/4" Length of plain part top all round Thickness of plates crown 9/16" bottom

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 236 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 1/2"

Top 7 x 8 If stays are fitted with nuts or riveted heads Nuts in T.C. Working pressure by rules 201 lbs. Material of stays Steel Area at

smallest part 1.78 sq. in. Area supported by each stay 66 sq. in. Working pressure by rules 242 lbs. End plates in steam space: Material Steel Thickness 1/8"

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 Area at smallest part 5.24 sq. in.

Area supported by each stay 15 1/4 x 14 1/4 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 1 3/8" Material of tube plates Steel Thickness: Front 1/8" 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

girder at centre 8 x 13 (two) Length as per rule 24" Distance apart 8" Number and pitch of Stays in each 3 @ 4"

Working pressure by rules 256 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

SUPERHEATER. 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

The foregoing is a correct description,

Kawasaki Kkyd. Co. Ltd.

J. Ota Kane Manufacturer.

Per.

Is the approved plan of boiler forwarded Secretary.

Dates of Survey During progress of work in shops 2.8.21 Aug. 2.7.13 Sept 1918

while building During erection on board vessel 12.17.20.25.28.29 Jan 1919

Total No. of visits 12

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

This auxiliary Boiler has been made + fitted under special Survey in accordance with the Rules + the materials + workmanship are good.

The vessel is in my opinion eligible for the record One S. E. aux.

Blw. 200 lbs. Included in machy. 1st E. fee

Survey Fee ... £ When applied for, 191

Travelling Expenses (if any) £ When received, 191

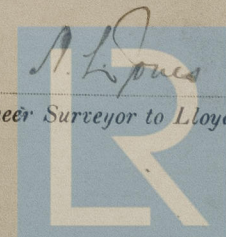
Committee's Minute

FRI. 28 MAR. 1919

Assigned

See spec. attached

Engineer Surveyor to Lloyd's Register of Shipping.



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