

REPORT ON BOILERS.

No. 2087

Received at London Office WED. NOV. 14 1917.

Date of writing Report 23rd Sep 1917 When handed in at Local Office 19 Port of Kobe

No. in Survey held at Kobe Date, First Survey 20th March Last Survey 28th Sept. 1917

Reg. Book. on the Steel Single Screw Steamer "War Lion" (Number of Visits 14) Tons { Gross Net

Master Built at Kobe By whom built The Kawasaki Dry Dock Co. Ltd. When built 1917-9

Engines made at Kobe By whom made The Kawasaki Dry Dock Co. Ltd. when made 1917 do

Boilers made at do By whom made do when made 1917

Registered Horse Power 440 Owners Turners Withy & Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Carnegie, Alan Wood, James Marshall.

(Letter for record S.) Total Heating Surface of Boilers 1132^{sq} Is forced draft fitted Yes No. and Description of Boilers 1 S. E. Aux. blr. Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 5/6/17

No. of Certificate 400 LBS LLOYD'S TEST Can each boiler be worked separately Area of fire grate in each boiler 33^{sq} No. and Description of safety valves to each boiler 5.6.17 ALJ. R. Two direct spring Area of each valve 5.93^{sq} Pressure to which they are adjusted 205 lb

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 Welded

Descrip. of riveting: cir. seams Double riv. long. seams Double straps Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 6 29/32 3 29/64

Longitudinal 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 lb Size of manhole in shell 15" x 16" Size of compensating ring (7/4" + flange) x 1" No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 40 1/4" Length of plain part top Thickness of plates crown 9/16 bottom

Description of longitudinal joint Weld. No. of strengthening rings Working pressure of furnace by the rules 236 lb Combustion chamber plates: Material Steel Thickness: Sides 7/8" Back 7/8" Top 7/8" 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 204 lb Material of stays Steel Section Diameter at smallest part 5.27"

smallest part 1.78" Area supported by each stay 66" Working pressure by rules 242 lb End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 15 1/4 x 14 1/2 How are stays secured Double nuts Working pressure by rules 202 lb Material of stays Steel Section Diameter at smallest part 5.27"

Area supported by each stay 15 1/4 x 14 1/2 Working pressure by rules 238 lb 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" Wide Working pressure of plate by rules 200 lb 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" Double 5" Working pressures by rules 200 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 Length as per rule 27" Distance apart 8' Number and pitch of Stays in each 3 @ 7"

Working pressure by rules 256 lb Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

Kawasaki Dry Dock Co., Ltd. Manufacturer.

Per: K. KAKAJIMA Secretary.

Dates of Survey During progress of work in shops - - 14th March to 1st September.

while building During erection on board vessel - - 1st Sept to 28th September 1917

Is the approved plan of boiler forwarded herewith

Total No. of visits 14.

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 requirements of the Rules & the materials & workmanship have been found good.

Survey Fee (Gen 50/- Entered: on Machy Rpt) When applied for, 19.

Travelling Expenses (if any) When received, 19.

Arthur L. Jones

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 16 NOV. 1917

Assigned



Lloyd's Register Foundation

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