

REPORT ON BOILERS.

No. 2285

Received at London Office

THU. 0027 1918

Date of writing Report 11th Aug 1918 When handed in at Local Office

Port of Kobe

No. in Survey held at Reg. Book.

Osaka

Date, First Survey

Last Survey

191

on the Steel Single Screw Steamer "Kaisho Maru" fitted in Yokohama

Number of Visits

6071
4433

Master Built at Osaka

By whom built The Osaka Iron Works Ltd.

When built 1918

Engines made at Osaka

By whom made The Osaka Iron Works Ltd.

When made 1918

Boilers made at do

By whom made do

When made do

Registered Horse Power 553

Owners Katsuda Kisen Kaisha

Port belonging to Mutsuohama

MULTITUBULAR BOILERS—~~MANUFACTURED BY~~ DONKEY.—Manufacturers of Steel J. Dunlop & Co

(Letter for record S.) Total Heating Surface of Boilers 1139^{sq} Is forced draft fitted No. No. and Description of

Boilers On S.E. Working Pressure 120^{lbs} Tested by hydraulic pressure to 240^{lbs} Date of test 13/4/18

No. of Certificate Lloyd's No. 340 LBS Can each boiler be worked separately Area of fire grate in each boiler 41^{sq} No. and Description of

safety valves to each boiler 2 No. direct spring Area of each valve 3" dia. Pressure to which they are adjusted 125^{lbs}

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Smallest distance between boilers or uptakes and bunkers or woodwork 21" Mean dia. of boilers 11'-6" Length 10'-0"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 28-35^{tons} Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D. riv. long. seams Doub. riv. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5" x 2 1/2"

width of butt straps 10" Per centages of strength of longitudinal joint rivets 82.2 plate 81.8 Working pressure of shell by

rules 130^{lbs} Size of manhole in shell 12" x 16" Size of compensating ring 28" x 32" x 3/4" No. and Description of Furnaces in each

boiler Two: plain. Material Steel Outside diameter 44" Length of plain part top 44" bottom 48" Thickness of plates crown 9/16" bottom

Description of longitudinal joint Weld No. of strengthening rings On Working pressure of furnace by the rules 137^{lbs} Combustion chamber

plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 8 1/2" x 9 3/4" Back 8 1/2" x 9 3/4"

Top 8 1/2" x 9 3/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 131^{lbs} Material of stays Steel Area at

smallest part 179^{sq} Area supported by each stay 9 1/2" x 11 1/2" Working pressure by rules 136^{lbs} End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 17 x 17 How are stays secured Doub. nuts Working pressure by rules 125^{lbs} Material of stays Steel Area at smallest part 3.97^{sq}

Area supported by each stay 17 x 17 Working pressure by rules 143 Material of Front plates at bottom Steel Thickness 1/16" Material of

Lower back plate Steel Thickness 1/16" Greatest pitch of stays 14" between nests of stays Working pressure of plate by rules 120^{lbs} Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates Steel Thickness: Front 11/16" Back 11/16" Mean pitch of stays 11 7/8" Pitch across wide

water spaces 14" Working pressures by rules 120^{lbs} Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 4' x 3/4" (2 plates) Length as per rule 29" Distance apart 8 1/2" Number and pitch of Stays in each 2 @ 9 3/4"

Working pressure by rules 165^{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

G. Gennet

Manufactured

Dates During progress of work in shops -- 11.24 Jan. 7.19 Feb. 8.22 Mar

Is the approved plan of boiler forwarded herewith

while building During erection on board vessel -- 5.13 April 9.11 May 7.10 June 1918

Total No. of visits 12

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

This donkey boiler has been made & fitted under Special Survey in accordance with the rules & the materials & workmanship are good.

Survey Fee ... 400 80 : When applied for 27 May 1918

Travelling Expenses (if any) £ : : When received 1st June 1918

A. L. Jones

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI OCT. 11. 1918

Assigned

