

REPORT ON BOILERS

No. 2141

Received at London Office

FEB. 24 1918

Date of writing Report 11 Dec 1917 When handed in at Local Office Osaka Port of Kobe
 No. in Survey held at Osaka Date, First Survey 14 Apr 1916 Last Survey 20 Oct 1917
 Reg. Book. Steel Single Screw Steamer "Hokaisan Maru" (Number of Visits 14) Gross 607 1/2
 on the Osaka Tons Net 443 3/4
 Master Osaka Built at Osaka By whom built The Osaka Iron Works Ltd When built 1917
 Engines made at Osaka By whom made The Osaka Iron Works, Ltd when made 1917
 Boilers made at do By whom made do when made do
 Registered Horse Power 553 Owners The Mitsui Bussan Kaisha Port belonging to do

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Dunlop & Co

(Letter for record S) Total Heating Surface of Boilers 1139 Is forced draft fitted No No. and Description of Boilers One S.S.
 Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 14/3/14
 No. of Certificate 140408 Can each boiler be worked separately Yes Area of fire grate in each boiler 41 No. and Description of safety valves to each boiler Two 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 1' 9" Mean dia. of boilers 11' 6" Length 10' 0"
 Material of shell plates Steel Thickness 3/4" Range of tensile strength 28 to 32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Double riv. long. seams Double shape Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5" x 2 1/2"
Double riveted rivets 82-21 Working pressure of shell by rules 130 lbs Size of manhole in shell 12" x 16" Size of compensating ring 2' 4" x 2' 8" x 3/4" No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 3' 8" Length of plain part 44 Thickness of plates 9/16"
 Description of longitudinal joint Weld No. of strengthening rings One 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 1/4"
 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 Diameter at smallest part 1 1/2" Area supported by each stay 9 1/4" 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 Double nuts Working pressure by rules 125 lbs Material of stays Steel Section Diameter at smallest part 3 9/16"
 Area supported by each stay 17" x 17" Working pressure by rules 143 Material of Front plates at bottom Steel Thickness 11/16" Material of Lower back plate Steel Thickness 11/16" Greatest pitch of stays 14" between 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 1/2" 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 7' 3/4" (2 1/4" x 14") 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 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,
OSAKA IRON WORKS, LTD.

J. Yamaguchi Manufacturer.

Dates of Survey: During progress of work in shops: 14 Apr 4.26 May 14 Aug 15 Sep 16-30 Nov 1916
 while building: During erection on board vessel: 16-30 Jan 14.24 Mar 1917
12.24 Sept. 20 Oct. 1917 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits 14

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

This boiler has been made & fitted under Special Survey in accordance with the Rules & the materials & workmanship have been found good.

Survey Fee Charged on Machinery When applied for, 19
 Travelling Expenses (if any) Rpt. When received, 19

Arthur L. Jones

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

Committee's Minute

TUE. 26 FEB. 1918

Assigned

Lloyd's Register
Foundation

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