

REPORT ON BOILERS.

No. 2140
THU, 7 FEB. 1918

Received at London Office

Date of writing Report 10 Dec. 1917 When handed in at Local Office Osaka Port of Kobe
 No. in Survey held at Osaka Date, First Survey 16 Jan'y 1917 Last Survey 10 Nov. 1917
 Reg. Book. on the Steel Twin Screw Steamer "Alps Maru" (Number of Visits 19) } Gross 7789
 } Net 4861
 Built at Osaka By whom built The Osaka Iron Works Ltd When built 1917
 Plates made at Osaka By whom made The Osaka Iron Works Ltd when made 1917
 Rivets made at do By whom made do when made do
 Registered Horse Power 655 Owners The Osaka Shosen Kaisha Port belonging to Osaka

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd

Letter for record S. Total Heating Surface of Boilers 1403 Is forced draft fitted Yes Deighton Tube Co.

Boilers One S. E. Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 22.5.17

of Certificate LLOYD'S TEST 400 lbs Can each boiler be worked separately Yes Area of fire grate in each boiler 39.4 No. and Description of

valves to each boiler Two Direct Spring Area of each valve 2 1/2" diam 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 15" Mean dia. of boilers 12'0" Length 11'6"

Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 28-32 T Are the shell plates welded or flanged No.

Description of riveting: cir. seams Double riv. long. seams Double riveted Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 1/4 x 4 1/8

Material of plates or width of butt straps 17 1/4" x 1 1/16" Per centages of strength of longitudinal joint 88.0 Working pressure of shell by

rules 209 lbs Size of manhole in shell 12 x 16 Size of compensating ring 34.38 x 1 1/8" No. and Description of Furnaces in each

boiler Two "Deighton" Material Steel Outside diameter 47 1/4" Length of plain part top Thickness of plates crown 5/8"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 212 1/2 Combustion chamber

Material Steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 7/8" Pitch of stays to ditto: Sides 8 1/4 x 8 1/2 Back 9 x 8

If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 206 1/2 Material of stays Steel Section Diameter at

smallest part 1.79" Area supported by each stay 72" Working pressure by rules 223 1/2 End plates in steam space: Material Steel Thickness 1 5/32"

How are stays secured Double nuts Working pressure by rules 212 1/2 Material of stays Steel Section Diameter at smallest part 5.94"

Area supported by each stay 17 x 17 1/2" Working pressure by rules 207 1/2 Material of Front plates at bottom Steel Thickness 13/16" Material of

upper back plate Steel Thickness 13/16" Greatest pitch of stays 14 3/4" Working pressure of plate by rules 200 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 x 4 3/8" Material of tube plates Steel Thickness: Front 13/16" Back 13/16" Mean pitch of stays 10 3/4" Pitch across wide

inter spaces 14" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 10 1/2 x 7 1/8" Length as per rule 34 1/2" Distance apart 9" Number and pitch of Stays in each 3 @ 8"

Working pressure by rules 238 1/2 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

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,

G. Yamada Manufacturer.
General Manager Osaka S. W. Co.

Dates During progress of work in shops: 16.30 Jan'y 9.24 Feb. 14.24 Mar. 12.23 Apr. Is the approved plan of boiler forwarded herewith? Yes
 while During erection on board vessel: 1.8.22 May. 4.13 June 20.21 July 20 Aug. 18 Oct. 20 Oct. 10 Nov. 1917 Total No. of visits 19

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 have been found good.

Survey Fee Included in Machy : } When applied for, 19
 Travelling Expenses (if any) S. S. Fee : } When received, 19

A. L. Jones

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

Committee's Minute TUE. FEB. 12 1918.

Assigned

