

REPORT ON BOILERS.

No. 3439.

Received at London Office

22 DEC 1924

Date of writing Report Oct 30 1924 When handed in at Local Office 10 Port of Yokohama
 No. in Survey held at Tsurumi, Yokohama Date, First Survey June 23, 1921 Last Survey Oct 8, 1924
 Reg. Book. on the Steel Twin Screw Steamer Bokuyo Maru (Number of Visits 43) Gross 8603.55
 Master ✓ Built at Tsurumi, Yokohama By whom built Asano Shipbuilding Co. When built Oct. 1924
 Engines made at Indianapolis, U. S. A. By whom made Midwest Engineering Co. When made 1920
 Boilers made at Tsurumi, Yokohama By whom made Asano Shipbuilding Co. When made 1924
 Registered Horse Power 923.5 Owners Togo Kisen Kaisha Port belonging to Yokohama
Carnegie Steel Co. U.S.A.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record S.) Total Heating Surface of Boilers 9844.4 Is forced draft fitted yes No. and Description of 15 May 1924
 Boilers Four multitubular. Single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 2 July 1924
 No. of Certificate ✓ Can each boiler be worked separately yes Area of fire grate in each boiler 60.4 No. and Description of
 safety valves to each boiler 2 Spring loaded Area of each valve 11 sq Pressure to which they are adjusted 200
 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 ✓ Mean dia. of boilers 14'-3" Length 11'-6"
 Material of shell plates Steel Thickness 1 13/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams D.R.L. long. seams TRANS. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10"
 Lap of plates or width of butt straps 22" Per centages of strength of longitudinal joint 86.3% Working pressure of shell by
 rules 223 Size of manhole in shell 12" x 16" Size of compensating ring 3'-0 1/2" x 2'-8" x 1 1/2" No. and Description of Furnaces in each
 boiler 3 Morrison Material Steel Outside diameter 3'-10 1/8" Length of plain part 8'-7 3/4" Thickness of plates 5/8"
 Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 210 Combustion chamber
 plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 5/16" Pitch of stays to ditto: Sides 10" x 7 1/2" Back 8 1/2" x 8 1/2"
 Top 8" x 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 269 Material of stays Steel Area at
 smallest part 1.74 Area supported by each stay 75 Working pressure by rules 249 End plates in steam space: Material Steel Thickness 1 3/16"
 Pitch of stays 1" x 1 1/4" How are stays secured DN & W Working pressure by rules 207 Material of stays Steel Area at smallest part 8.946
 Area supported by each stay 3 1/3 Working pressure by rules 254 Material of Front plates at bottom Steel Thickness 3/4" Material of
 Lower back plate Steel Thickness 3/4" Greatest pitch of stays 14" Working pressure of plate by rules 202 Diameter of tubes 3"
 Pitch of tubes 4 1/4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8 1/2" Pitch across wide
 water spaces 13 1/2" Working pressures by rules 200 Girders to Chamber tops: Material Steel Depth and thickness of
 girder at centre 9 x 1 3/4" Length as per rule 2'-7 1/4" Distance apart 8" Number and pitch of Stays in each 2 @ 9 1/4"
 Working pressure by rules 306 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 Foster's Date of Approval of Plan Made in USA. Tested by Hydraulic Pressure to 600 lbs.
 Date of Test June 24 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes
 Diameter of Safety Valve 3 3/4" Pressure to which each is adjusted 200. Is Easing Gear fitted yes.

The foregoing is a correct description,

M. Sugawara Manufacturer.

Dates of Survey 1921, June 23, Oct 2, 22, 1922, Jan 10, Feb 1, Mar 1, 8, 15, 29, Apr 10, 25, May 16, 1923, June 2, 3, 7, 10, 19, 24, Oct 1, 3, 48. Is the approved plan of boiler forwarded herewith Yes.
 work in shops - May 15, 24, 26, Aug 27, Sept 3, 6, 9, 19, 24, Oct 1, 3, 48. Total No. of visits 43.
 while building (During erection on board vessel - - -) From June 11th

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

The Boilers of this vessel have been built in accordance with the requirements of the Rules, the materials & workmanship have been found good. The Boilers are eligible in my opinion to have the Award of B.P. 10. 24.

Survey Fee ... £ See Engine Report When applied for, 19
 Travelling Expenses (if any) £ Report When received, 19

Committee's Minute FRI. 2 JAN 1925

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

