

REPORT ON BOILERS.

No. 2686

Received at London Office

JUL 24 1920

Report Dec 22nd 1919 When handed in at Local Office 19 Port of Kobe
 Survey held at Kobe Date, First Survey Aug. 13th Last Survey Dec. 12th 1919
 the Steel Single Screw Steamer "SPAIN MARU" Tons { Gross 5864.69
 Net 4263.06
NAKAJIMA Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1919
 at Kobe By whom made The Kawasaki Dockyard Co. Ltd. When made 1919
 at do By whom made do When made 1919
 Horse Power N.H.P. 440 Owners The Kawasaki Kisen Kaisha, Ltd. Port belonging to Kobe

UBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Steel Co, Carnegie Stl. Co
American Spiral Pipe Co.

record S. ✓ Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of

S. & C. Auxary Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 18-10-19

LLOYD'S TEST 400 LBS. W.F. 200 LBS. W.L.R. Can each boiler be worked separately yes Area of fire grate in each boiler 330 No. and Description of

to each boiler Two Direct Spring Area of each valve 5.930 Pressure to which they are adjusted 205 lbs.

ed with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10'-10" Length 10'-6"

shell plates Steel Thickness 1" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No

riveting: cir. seams Double rivet long. seams Double straps Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 29/32 + 3 29/64

es or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by plate 84.6

Size of manhole in shell 12" x 16" Size of compensating ring (1 1/4" flange) 1" No. and Description of Furnaces in each

Morrison Material Steel Outside diameter 40 1/4" Length of plain part top ✓ Thickness of plates crown 9/16" bottom ✓

of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 236 lbs. Combustion chamber

Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 7 x 8 1/2" Back 7 13/16 x 8 1/8"

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Area at

rt 1.780 Area supported by each stay 660 Working pressure by rules 242 lbs. End plates in steam space: Material Steel Thickness 7/8"

ays 15 1/4 x 14 1/2" How are stays secured Double nuts Working pressure by rules 202 lbs. Material of stays Steel Area at smallest part 5270

rted by each stay 15 1/4 x 14 1/2" Working pressure by rules 238 lbs. Material of Front plates at bottom Steel Thickness 3/4" Material of

plate Steel Thickness 3/4" Greatest pitch of stays 13 1/2" at wide Working pressure of plate by rules 200 lbs. Diameter of tubes 3 1/4"

es 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

es 13 3/4" doubled 5/8" Working pressures by rules 200 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

entre 8" x 13/16" (Two) Length as per rule 27" Distance apart 8" Number and pitch of Stays in each 3 @ 7"

essure by rules 256 lbs. Steam dome: description of joint to shell ✓ % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

EATER. Type ✓ Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, Kawasaki Dockyard Co. Ltd. Manufacturer.

Per J. O. Kane Secretary

Is the approved plan of boiler forwarded herewith No. - Same as

Total No. of visits 13 for S/S. ENGLAND MARU Rpt. No. 2669

During progress of 1919 Aug. 13, 25; Sept. 11, 14, 18, Oct. 1, 8, 13th

work in shops - - - Nov. 26, Dec. 3, 4, 8, 12th

board vessel - - -

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

The Boiler has been made + fitted under special Survey.

Rules have been complied with + the materials + workmanship found good.

This vessel is eligible, it is submitted, for the record One S. & C.

auxiliary Boiler 200 lbs.

Fee ... Included in heavy fee When applied for, 16th Dec 1919

ing expenses (if any) £ When received, 19

tee's Minute

See p.c. rpt attached

FRI. 21 FEB. 1920

A Watt & W. Rawson

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

Foundation

W 660-0180