

REPORT ON BOILERS.

No. 2780.

TUE MAY 25 1920

of writing Report 10th Apr. 1920 When handed in at Local Office Kobe Port of Kobe
 in Survey held at Kobe Date, First Survey 3rd Sept 1919 Last Survey 6th Apr. 1920
 Book. on the Steel Single Screw Steamer "SWEDEN MARU" (Number of Visits 20)
 ter B. Fukuya Built at Kobe By whom built Kawasaki Dockyard Co. Ltd. When built 1920
 nes made at Kobe By whom made Kawasaki Dockyard Co. Ltd. When made 1920
 ers made at do By whom made do When made 1920
 stered Horse Power N.H.P. 440 Owners The Kawasaki Kisen Kaisha Port belonging to Kobe

LTITUBULAR BOILERS ~~MAIN~~, AUXILIARY OR ~~DONKEY~~. Manufacturers of Steel Illinois Stl. Co. Carnegie Stl. Co. + Am. Spiral Pipe Co.
 er for record S. ✓ Total Heating Surface of Boilers 1132^{sq} ft Is forced draft fitted yes No. and Description of
 ers One S. & Auxy. Bhr. Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 31-1-20
 of Certificate WT. 400 LBS Can each boiler be worked separately yes Area of fire grate in each boiler 33^{sq} ft No. and Description of
 y valves to each boiler Two Direct Spring Area of each valve 5.93^{sq} ft Pressure to which they are adjusted 205 lb
 they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 lest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10'-10" Length 10'-6"
 rial of shell plates Steel Thickness 1" Range of tensile strength 28532 tons Are the shell plates welded or flanged no
 rip. of riveting: cir. seams Double rivet long. seams Double rivet Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 3/32 + 3 3/32
 of plates 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
200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4" flange) 1" No. and Description of Furnaces in each
Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part top Thickness of plates crown 9/16"
 ription of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 218 lb Combustion chamber
 s: 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 1/16" x 8 1/8"
7" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 213 lb Material of stays Steel Area at
 est part 1.79^{sq} ft Area supported by each stay 64^{sq} in Working pressure by rules 223 lb End plates in steam space: Material Steel Thickness 7/8"
 of stays 15 1/4" x 14 1/2" How are stays secured Double nuts Working pressure by rules 202 lb Material of stays Steel Area at smallest part 5.27^{sq} ft
 supported by each stay 15 1/4" x 14 1/2" Working pressure by rules 248 lb Material of front plates at bottom Steel Thickness 3/4" Material of
 back plate Steel Thickness 3/4" Greatest pitch of stays 15" approx. Working pressure of plate by rules 237 lb Diameter of tubes 3 1/4"
 of tubes 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
 spaces 13 3/4" double 5/8" Working pressures by rules 266 lb Girders to Chamber tops: Material Steel Depth and thickness of
 at centre 8" x 3/4" (two) Length as per rule 26 5/8" Distance apart 8" Number and pitch of Stays in each 3 @ 7"
 ing pressure by rules 246 lb Steam dome: description of joint to shell None % of strength of joint
 eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 of rivets Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type ✓ Date of Approval of Plan 1919 Sept 3, 18; Oct 9, 14, 16, 23; Dec 23; Jan 24, 14, 21, 22, 24, 30 Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 ter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted
Kawasaki Dockyard Co., Ltd.
 The foregoing is a correct description,
 Per. [Signature] Secretary. Manufacturer.
 During progress of work in shops - 1919 Sept 3, 18; Oct 9, 14, 16, 23; Dec 23; Jan 24, 14, 21, 22, 24, 30 Is the approved plan of boiler forwarded herewith yes
 During erection on board vessel - Feb. 6, 14, 21; Mar 12, 18; Apr 6. Total No. of visits Twenty.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boiler has been made
d fitted under special Survey. The Rules have been complied with
the materials and workmanship found good. The vessel is eligible,
is submitted, for the record One S. & Auxiliary Boiler 200 lbs.

Survey Fee Included in machinery fee When applied for, 12th Apr. 1920.
 Travelling Expenses (if any) When received, 16th Apr. 1920.
 Shipping.
 Committee's Minute FRI. JUN. 11 1920
See p. 1st attached
Alexander Watt
 Engineer Surveyor to Lloyd's Register of Shipping.

