

Rpt. 5a.

REPORT ON BOILERS.

No. 403

TUE. 18 JAN. 1921

Received at London Office

Date of writing Report March 11 1920 When handed in at Local Office March 12 1920 Port of Philadelphia Pa
 No. in Survey held at Chester Pa Date, First Survey April 4 1919 Last Survey May 14 1919
 Reg. Book. on the Single Screw Steel Steamer 'PEARLDON' (Number of Visits 4) Gross 5186.97 Tons Net 3686.
 Master W. E. Keller Built at Savannah, Ga. By whom built Jerry S. B. Co. When built 1920
 Engines made at _____ By whom made Badenhausen Co. When made 1919
 Boilers made at Chester Pa By whom made Jerry Ship Bldg Co When made 1919
 Registered Horse Power _____ Owners United States Shipping Board Port belonging to Washington.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lubben S & D. Co

Letter for record ✓ Total Heating Surface of Boilers 5554 Is forced draft fitted _____ No. and Description of Boilers 2 SE. Hatch Marine Working Pressure 190 Tested by hydraulic pressure to 285 Date of test 4-5-19
 No. of Certificate 337 Can each boiler be worked separately Yes Area of fire grate in each boiler 61.8 No. and Description of Safety valves to each boiler _____ Area of each valve _____ Pressure to which they are adjusted 190 lbs.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 15'-4 3/32 Length 11'-7 1/8
 Material of shell plates Steel Thickness 1 1/32 Range of tensile strength 605-7150 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams D.R.L long. seams TROBS Diameter of rivet holes in long. seams 17/16 Pitch of rivets 8 1/16
 Gap of plates or width of butt straps 20 3/4 Per centages of strength of longitudinal joint rivets 94.6% plate 84% Working pressure of shell by rules 204 Size of manhole in shell 12 x 16 Size of compensating ring Flange No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 49 1/4 Length of plain part _____ Thickness of plates crown 5/8 bottom _____
 Description of longitudinal joint Weld No. of strengthening rings _____ Working pressure of furnace by the rules 204 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 3/4 Top 7/8 Bottom 15/16 Pitch of stays to ditto: Sides 1/4 x 7/8 Back 8/16 x 8/16
 If stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 193 Material of stays W 1 Area at smallest part 1.997 Area supported by each stay 72.25 Working pressure by rules 207 End plates in steam space: Material Steel Thickness 1 1/8
 Pitch of stays 6 1/4 x 15 1/2 How are stays secured D. Nuts Working pressure by rules 196 Material of stays Steel Area at smallest part 5.93
 Area supported by each stay 279.6 Working pressure by rules 237 Material of Front plates at bottom Steel Thickness 1 Material of lower back plate Steel Thickness 1 1/8 Greatest pitch of stays 13 Working pressure of plate by rules 268 Diameter of tubes 2 1/2
 Pitch of tubes 3 1/2 x 3 1/4 Material of tube plates Steel Thickness: Front 1 Back 3/4 Mean pitch of stays 9 Pitch across wide water spaces 13 Working pressures by rules 212 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 1/4 x 1 1/4 Length as per rule 35 Distance apart 7 1/4 Number and pitch of Stays in each 4 at 7/8
 Working pressure by rules 254 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 _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description.
A. A. Howitz Manufacturer.

Dates During progress of April 4-30 May 8-14 1919 Is the approved plan of boiler forwarded herewith No
 Survey work in shops - - - 1920
 While During erection on Oct 23, 26, Nov. 1, 8, 10, 11, 18, 15, 16, 22, Dec. 4, 10, 13, 18, 21. Total No. of visits 19.
 Building board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under precise survey, in accordance with the approved plans, the workmanship & materials are good. United States Shipping Board - Nos 5162-5163. Boilers have been shipped to the Jerry Shipbuilding Co. Savannah, Georgia. These boilers have been satisfactorily installed on board & on completion safety valves were adjusted to 190 lbs. under steam.

Survey Fee ... \$ 150.00 : When applied for, May 31 1919
 Travelling Expenses (if any) \$ 4.00 : When received, Aug 20 1919

Committee's Minute New York JAN - 4 1921 W. R. Ham + J. B. G. B. Engineer Surveyor to Lloyd's Register of Shipping

Signed See fax. Rpt No 362

