

Date of writing Report March 11 1921 When handed in at Local Office March 12 1921 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 Chester Pa By whom made Badenhausen Co. When made 1919
Boilers made at Chester Pa By whom made Iron Ship Bldg Co When made 1919
Registered Horse Power 1000 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 1 Area of each valve 190 lbs. 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 1/8" Mean dia. of boilers 15'-4 3/4" Length 11'-7 1/8"
Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 60500-70000 Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams D.R.L. long. seams TRAUSS 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% Working pressure of shell by
rules 204 Size of manhole in shell 12"x16" Size of compensating ring Flange plate 84%
Boiler 3 Morrison Material Steel Outside diameter 49 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 204 Combustion chamber
plates: Material Steel Thickness: Sides 5/8" Back 3/4" Top 7/8" Bottom 1 1/16" Pitch of stays to ditto: Sides 1 1/4"x7/8" Back 8 1/2"x8 1/2"
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"x15 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 219.6 Working pressure by rules 217 Material of Front plates at bottom Steel Thickness 1" Material of
lower back plate Steel Thickness 1 1/4" Greatest pitch of stays 13" Working pressure of plate by rules 268 Diameter of tubes 2 1/2"
Pitch of tubes 3 1/2"x3 3/4" 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 1/2"x1 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. C. Howich Manufacturer.

Dates During progress of April 4-30 May 8-14 1919 Is the approved plan of boiler forwarded herewith Yes
Survey work in shops 1920
While During erection on Oct 23, 26, Nov 1, 8, 10, 11, 12, 13, 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

Signed See fax Rpt No 362

W. R. Ham + J. B. G.
Engineer Surveyor to Lloyd's Register of Shipping.