

Please attach to Baltimore report No 2883

pt. 5a.

REC'D NEW YORK
REPORT ON BOILERS.

No. 2927

Received at London Office

THE AUG. 12 1920

No. of writing Report 9th Aug 1918. When handed in at Local Office 9th Aug 1918. Port of Philadelphia
No. in Survey held at Wilmington Del. Date, First Survey 31-5-18. Last Survey 6-6-18. 191
Reg. Book. on the Steamer John R. Gibbons (Number of Visits 3.) } Gross
 } Net
ig boiler Rudder Built at Baltimore Md By whom built Union Shipbuilding Co When built 1920
each engines made at Baltimore Md By whom made Ellicott Machine Corporation When made 1920
mpvab boilers made at Wilmington Del. By whom made Bethlehem Shipbuilding Corp Ltd When made 1918
nuts, registered Horse Power Owners American Bauxite Co. Port belonging to Philadelphia Pa

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens I & Co.
Letter for record S.) Total Heating Surface of Boilers 5226 sq ft Is forced draft fitted No No. and Description of
Boilers Two Single ended. Working Pressure 185. Tested by hydraulic pressure to 278 lbs Date of test 31-5-18.
No. of Certificate 3176. Can each boiler be worked separately Yes Area of fire grate in each boiler 79.7 sq ft No. and Description of
Safety valves to each boiler 2 direct spring loaded Area of each valve 9.62 Pressure to which they are adjusted 185
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 16'-12" Length 11'-8"
Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 60000 lbs Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams D.R. L.A.P. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 9.083"
Dec. 2 top of plates or width of butt straps 21 1/2" Per centages of strength of longitudinal joint rivets 96.5 Working pressure of shell by
Dec. 3 rules 199 Size of manhole in shell 12 x 16 Size of compensating ring 38 x 34 x 1 1/2" No. and Description of Furnaces in each
No. 29 boiler 3. Materials Material steel Outside diameter 4'-7 1/2" Length of plain part top ✓ Thickness of plates crown 2 1/2"
Description of longitudinal joint weld. No. of strengthening rings ✓ Working pressure of furnace by the rules 193 Combustion chamber
plates: Material steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 3/4" Pitch of stays to ditto: Sides 8 x 7 1/2" Back 8 1/2 x 7 1/2"
Top 8 1/2 x 7 1/2" If stays are fitted with nuts or riveted heads nuts ✓ Working pressure by rules 211 Material of stays steel Area at
smallest part 1.521 Area supported by each stay 63.9 Working pressure by rules 190 End plates in steam space: Material steel Thickness 1 1/2"
Pitch of stays 16 1/2 x 16 How are stays secured D.A. & W Working pressure by rules 202 Material of stays steel Area at smallest part 5.94
Area supported by each stay 264 Working pressure by rules 234 Material of Front plates at bottom steel Thickness 7/8" Material of
lower back plate steel Thickness 1" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 290 Diameter of tubes 3"
Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 7/8" Back 1 1/2" Mean pitch of stays 10.375 Pitch across wide
water spaces 1/4", 7/8" dbl. Working pressures by rules 248 Girders to Chamber tops: Material steel Depth and thickness of
girder at centre 9 1/2 x 1 7/8 Length as per rule 34 Distance apart 8 1/2 Number and pitch of Stays in each 3-7 1/2"
Working pressure by rules 222 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,
BETHLEHEM SHIPBUILDING CORPN., LTD. HARTAN PLANT Manufacturer.

Dates of Survey { During progress of }
while { work in shops - - }
building { During erection on }
board vessel - - - }

Is the approved plan of boiler forwarded herewith

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers were constructed under survey of the American Bureau of Shipping, the test results of the material have been submitted and are in accordance with the rules of Lloyd's Register.
Now Done. Boilers examined internally and externally and subjected to a hydrostatic test of 278 lbs per sq. in., scantlings checked up and found to agree with plan approved in New York 24/5/18. The workmanship is sound and good. They have been forwarded to Baltimore for installation aboard.

Survey Fee ... £ : : When applied for, 191
Travelling Expenses (if any) £ 2.50 : : When received, 191

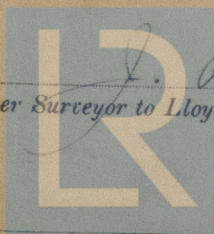
Committee's Minute

New York JUL 27 1920

Assigned

See Balt. Rpt. 2883

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation

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