

Please attach to Baltimore report No 2883

pt. 5a.

REPORT ON BOILERS.

No. 2927

Received at London Office

THE AUG. 12 1920

REC'D NEW YORK July 24/1920

Date 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 Tons } Net

ig boiler on the deck. 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 & C 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 Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork Yes. Mean dia. of boilers 16'-1 1/2" Length 11'-8"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 6000-6600 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 2 1/2" Per centages of strength of longitudinal joint rivets 96.5 Working pressure of shell by rules 199 Size of manhole in shell 12x16" Size of compensating ring 38x34x15" No. and Description of Furnaces in each boiler 3. Material steel Outside diameter 4'-7 1/2" Length of plain part top bottom Thickness of plates crown 2 1/2" bottom 3/2"

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 3/2" Pitch of stays to ditto: Sides 8x7 1/2" Back 8 1/2x7 1/2"

Top 8 1/2x7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 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 1/2x16 How are stays secured D.N.Y.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 1/2x4" Material of tube plates steel Thickness: Front 7/8" Back 1 1/2" Mean pitch of stays 10.375 Pitch across wide water spaces 14", 7/8" dbl. Working pressures by rules 248. Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9 1/2x1 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

UPERHEATER. Type Date of Ap. roval 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.

Is the approved plan of boiler forwarded herewith
Total No. of visits

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

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. ins. 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

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Engineer Surveyor to Lloyd's Register of Shipping.

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