

REC'D NEW YORK DEC 14 1920

REPORT ON BOILERS.

No. 3779

5a.

Received at London Office
 of writing Report 22nd April 1920 When handed in at Local Office 23rd April 1920 Port of Philadelphia, Pa. MON. 3 JAN. 1921
 in Survey held at Wilmington, Del. Date, First Survey _____ Last Survey _____ 191
 Book. _____ (Number of Visits _____) Tons } Gross
 on the _____ } Net
 Built at _____ By whom built _____ When built _____
 Lines made at _____ By whom made _____ When made _____
 ers made at Wilmington, Del. By whom made Bethlehem Shipbuilding Corp^s Ltd When made 1920
 istered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lucas Iron & Steel Co.

atter for record (7) Total Heating Surface of Boilers 9315 sq ft Is forced draft fitted _____ No. and Description of
 ers Three Scotch Single ended. Working Pressure 330. Tested by hydraulic pressure to 330. Date of test (1) 12-3-20
 of Certificate 440 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of

ty valves to each boiler Two direct spring Area of each valve 9.62 sq in Pressure to which they are adjusted _____
 they fitted with easing gear _____ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____

allest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 15'-4 1/2" Length 11'-6"
 terial of shell plates Steel Thickness 1 1/8" Range of tensile strength 60,000 Are the shell plates welded or flanged No
 scrip. of riveting: cir. seams D.R. LAP long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 9 1/8"

of plates or width of butt straps 22 3/8" Per centages of strength of longitudinal joint rivets 90.0 Working pressure of shell by
 plate 83.3
 es 240 Size of manhole in shell 12" x 16" Size of compensating ring 38" x 32 1/2" x 1 1/2" No. and Description of Furnaces in each

er 3 Corrugated Material Steel Outside diameter 48 3/8" Length of plain part top _____ bottom _____ Thickness of plates crown 1 1/8"
 bottom 1 1/8"
 scription of longitudinal joint Weld. No. of strengthening rings _____ Working pressure of furnace by the rules 234 Combustion chamber

tes: Material Steel Thickness: Sides 1 1/8" Back 1 1/8" Top 1 1/8" Bottom 1" Pitch of stays to ditto: Sides 7 1/2" x 7" Back 7 3/8" x 7 1/2"
7 3/8" x 7" If stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 238 Material of stays Iron Area at

allest part 2.06 sq in Area supported by each stay 53.5 sq in Working pressure by rules 289 End plates in steam space: Material Steel Thickness 1 1/8"
 ch of stays 16 1/2" x 15" How are stays secured Double nuts Working pressure by rules 230 Material of stays Steel Area at smallest part 6.49 sq in

sa supported by each stay 247.5 sq in Working pressure by rules 272 Material of Front plates at bottom Steel Thickness 1 1/8" Material of
 ver back plate Steel Thickness 1 1/8" Greatest pitch of stays 13" x 7 1/2" Working pressure of plate by rules 396 Diameter of tubes 2 1/2"

ch of tubes 3 1/2" x 3 3/4" Material of tube plates Steel Thickness: Front 1 1/8" Back 3/4" Mean pitch of stays 9" Pitch across wide
 er spaces 12 3/4" Working pressures by rules 278 Girders to Chamber tops: Material Steel Depth and thickness of

der at centre 9" x 2" Length as per rule 2'-11" Distance apart 7 3/8" Number and pitch of Stays in each 4-7"
 rking pressure by rules 266. Steam dome: description of joint to shell _____ % of strength of joint _____

meter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 ch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

ERHEATER. Type _____ Date of Approval of Plan _____ 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 _____

meter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description,
 BETHLEHEM SHIPBUILDING CORP., LTD. HARBAN PLANT
E. J. Germain Manufacturer.

ates } During progress of }
 survey } work in shops - - }
 hile } During erection on }
 lding } board vessel - - - }
 1919 Dec 2, 17, 20. 1920. Jan 5, 12, 20, 27. Feb 9, 18.
 Mar 1, 9, 12, 18, 23. April 6, 14.
 Is the approved plan of boiler forwarded herewith Copy
 Total No. of visits _____

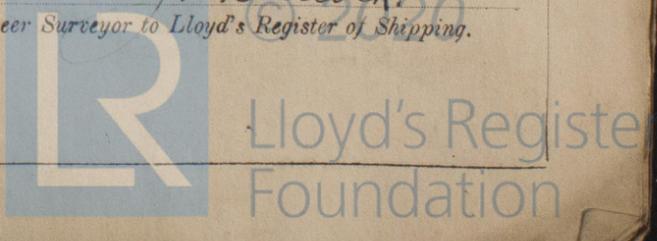
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed
under Special Survey and in accordance with approved plan. The materials and
workmanship are good and efficient. To complete the survey, the boilers to be installed
on board, all mountings to be fitted and safety valves adjusted under steam.

dit Phila^s Survey Fee.
 Survey Fee ... £ : : } When applied for, ... 191
 Travelling Expenses (if any) £ : : } When received, ... 191
 Shipping ... \$ 8.50

Committee's Minute New York DEC 14 1920

signed See Box 1427

J. B. Bellock
 Engineer Surveyor to Lloyd's Register of Shipping.



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