

REPORT ON BOILERS.

17520
No. 2828

REC'D NEW YORK *Sept 4-1918*

Received at London Office

NOV. 1919

Writing Report *Sept. 23rd 1919* When handed in at Local Office *Sept. 23rd 1919* Port of *Philadelphia*
 Survey held at *Wilmington Del.* Date, First Survey *31st Oct 1917* Last Survey *191*
 on the *Main Boilers for the S.S. Kewanee* Bethlehem S. B. Corp.
 Built at *Elizabeth N.J.* By whom built *S. L. Moore & Sons Ltd.* When built *1919-8*
 By whom made *Bethlehem S. B. Corp. (Moore Plant)* When made *1919-8*
 By whom made *Harlan Plant, Contract S-3577* When made *1918-8*
 Owners *United States Shipping Board* Port belonging to *Elizabeth N.J.*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Worth Bros.*
 Total Heating Surface of Boilers *5510 sq ft* Is forced draft fitted *Yes* No. and Description of
 Working Pressure *190* Tested by hydraulic pressure to *285* Date of test *23-4-18*
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *78 sq ft* No. and Description of
 Area of each valve *9.62 sq ft* Pressure to which they are adjusted *195 lbs.*
 Mean dia. of boilers *187.53"* Length *11'-6"*
 Thickness *1 1/2"* Range of tensile strength *58000 min* Are the shell plates welded or flanged *no*
 Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *9.659"*
 Working pressure of shell by rivets *96.1* plate *83.8*
 Size of manhole in shell *12 x 16* Size of compensating ring *39 x 35* No. and Description of Furnaces in each
 Working pressure of furnace by the rules *204* Combustion chamber
 Working pressure by rules *196* Material of stays *Steel* Diameter at
 Working pressure by rules *216* End plates in steam space: Material *Steel* Thickness *1 1/2"*
 Working pressure by rules *203* Material of stays *Steel* Diameter at smallest part *5 1/4"*
 Working pressure by rules *222* Material of Front plates at bottom *Steel* Thickness *7/8"* Material of
 Working pressure of plate by rules *221* Diameter of tubes *3"*
 Working pressures by rules *192* Girders to Chamber tops: Material *Steel* Depth and thickness of
 Distance apart *8 1/2"* Number and pitch of Stays in each *3 x 7 1/2"*
 Working pressure by rules *220* Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Working pressure by rules End plates: Thickness How stayed
 Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
 BETHLEHEM SHIPBUILDING CORPN., LTD. HARLAN PLANT
 By *[Signature]* Manufacturer.
 ASSISTANT GENERAL MANAGER

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The two main boilers for this vessel have been constructed under special survey, the workmanship is sound & good, they have been tested by hydraulic pressure as stated above and are in my opinion eligible to be classed as recommended first entry machinery report. These Boilers have now been efficiently secured in place under main ground for ship.*

Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191
 classification fee and \$10.00 expenses to be credited to Philadelphia

Committee's Minute
 Assigned *See N.Y. Rpt 17520*
 J. B. Block
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation
 009376-009386-0015