

REPORT ON WATER TUBE BOILERS.

REC'D NEW YORK AUG 22 1927

No. 27763.

Received at London Office

3 SEP 1927

Writing Report 7 Feb. 1927. When handed in at Local Office 7 Feb. 1927. Port of New York & Cleveland
 in Survey held at Bayonne N.J. Date, First Survey 17 January 1927 Last Survey July 16 1927.
 Blk. on the S/S "CARL D. BRADLEY" Number of Visits 19. Gross 8805.51
 Built at Lorain, Ohio By whom built Ames. J. B. Boy. When built 1927-7
 Made at Lynn, Mass. By whom made General Elect. Boy. When made 1927.
 Made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1927-1.
 Rated Horse Power 985. Owners Bradley Trans. Co. Port belonging to Duluth.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth
 for Record S Date of Approval of plan Oct. 21 - 1926. Number and Description or Type
 Boilers Two Water Tube Boilers Working Pressure 325 Tested by Hydraulic Pressure to 650 Date of Test 1-17-18-27
 of Certificate 503-504 Can each boiler be worked separately yes Total Heating Surface of Boilers 11260
 Forced draught fitted yes Area of fire grate (coal) in each Boiler 108 sq. Total grate area of boilers in vessel including
 and Auxiliary 216 sq. No. and type of burners (oil) in each boiler No. and description of safety valves on
 boiler 2-3 1/4" Consolidated Area of each valve Pressure to which they are adjusted 325#
 Key fitted with easing gear yes. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 Least distance between boilers or uptakes and bunkers or woodwork Height of Boiler Width and Length
 in Drums:—Number in each boiler One Inside diameter 42" Material of plates Steel Thickness 25/32"
 of Tensile Strength 63000-71500 lb. Are drum shell plates welded or flanged DRDBS Description of riveting:—
 seams DRV long. seams DRDBS Diameter of rivet holes in long. seams 1 1/32" Pitch of Rivets 4"
 of plate or width of butt straps 21" Thickness of straps 3/4" Percentage strength of long. joint:—Plate 74% Rivet 82.5
 Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.5
 Drum has a flat side state method of staying Depth and thickness of girders at centre
 fitted Distance apart Number and pitch of stays in each Working pressure
 Rules 415 Steam Drum Heads or Ends:—Material Steel Thickness 1 3/16" Radius or how stayed 42"
 of Manhole or Handhole 15"x11" Material Steel Thickness 5/8" Drums:—Number in each boiler One Inside Diameter 7 1/4"
 Material of plates Steel Thickness 5/8" Range of tensile strength 63000-71500 lb. Are drum shell plates welded
 flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in
 seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
 Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7"
 Percentage strength of drum shell in way of tubes Drum Heads or Ends:—Material Steel Thickness 7/8"
 Radius or how stayed Size of manhole or handhole 6"x4 1/4" Headers or Sections:—Number 19
 Material Steel Thickness 5/8" Tested by Hydraulic Pressure to 650 Material of Stays
 at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 4" O.D.
 Thickness 6 B.H.Q. Number 726 Steam Dome or Collector:—Description of Joint to Shell
 Percentage strength of Joint Diameter Thickness of shell plates Material
 Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell
 Rules Crown or End Plates:—Material Thickness How stayed
 SUPERHEATER. Type B.W. Date of Approval of Plan Nov 19 - 1926 Tested by Hydraulic Pressure to 650 lb.
 Date of Test 1/28/27, 2/5/27 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler Yes.
 Diameter of Safety Valve 2" Pressure to which each is adjusted 325# Is easing gear fitted Yes.
 Is a drain cock or valve fitted at lowest point of superheater Yes. Number, diameter, and thickness of tubes 270-2"-10 B.H.Q.
 Easing Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

The Babcock & Wilcox Co. Manufactured for Hubbard Marine Eng.

Dates During progress of 1927-Jan. 17. 18. 28. Feb. 5.
 Survey work in shops - - -
 while During erection on 1927-March 31 to June 3.
 building board vessel - - -

Is the approved plan of boiler forwarded herewith yes.

Total No. of visits 19.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The workmanship and material are both of good quality. To complete the survey these boilers to be retested on board and tested by hydraulic pressure. All mountings to be examined & fitted. Safety valves to be adjusted under steam.

The above described boilers were installed in the vessel in accordance with the Rules & were found to be sound & efficient under working conditions. The safety valves have been set to blow off at 325 lbs. per sq. in.

Survey Fee ... N.Y. 40-150-
 Travelling Expenses (if any) ... Cleveland 50-
 Exp. 5-
 When applied for, 27
 When received, 23 Feb. 27

Alexander Mac Watt.

G. Drummond.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK AUG 24 1927

Assigned 2 W. T. B. - Steam Pressure 325 lbs □

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