

REPORT ON WATER TUBE BOILERS.

No. 17187

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of writing Report *Jan 14 1927* When handed in at Local Office *Jan 14 1927* Port of *New York*
 No. in Survey held at *Bayonne L.J.* Date, First Survey *3 Sept. 1925* Last Survey *1st Dec. 1926*
 Reg. Bk. on the *STS "E. T. BEDFORD"* Number of Visits *5* Tons { Gross
 Master Built at *Kearny L.J.* By whom built *Federal Sps Co* When built *1921*
 Engines made at *Kearny* By whom made *Federal Sps Co* When made *1921*
 Boilers made at *Bayonne L.J.* By whom made *Babcock & Wilcox Co* When made *1926*
 Registered Horse Power Owners *Standard Oil Co (L.J.)* Port belonging to *New York*

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel *Loken & Worth*
 Letter for Record Date of Approval of plan *April 13th 1926* Number and Description of Type
 of Boilers *Two (2) Water Tube* Working Pressure *250 lb* Tested by Hydraulic Pressure to *500 lb* Date of Test *11/29/26*
 No. of Certificate *478, 479* Can each boiler be worked separately *Yes* Total Heating Surface of Boilers *3182*
 Is forced draught fitted Area of fire grate (coal) in each Boiler No. and type of burners (oil) in each boiler *2*
 Main and Auxiliary No. and type of burners (oil) in each boiler *2* No. and description of safety valves on
 each boiler *1-2 1/2 Duplex* Area of each valve *4.91* Pressure to which they are adjusted *250 lb*
 Are they fitted with easing gear *Yes* In case of donkey boilers state whether steam from main boilers can enter the donkey boiler *No*
 Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler Width and Length
 Steam Drums:—Number in each boiler *One* Inside diameter *36"* Material of plates *Steel* Thickness *1/2"*
 Range of Tensile Strength *60000-70000* Are drum shell plates welded or flanged *Yes* Description of riveting:—
 Cir. seams *SR* long. seams *DR BBS* Diameter of rivet holes in long. seams *29/32"* Pitch of Rivets *2 1/4" 4 1/2"*
 Lap of plate or width of butt straps *9 1/4" 15"* Thickness of straps *1/2" 9/16"* Percentage strength of long. joint:—Plate *80* Rivet *110*
 Diameter of tube holes in drum *4 1/32"* Pitch of tube holes *7"* Percentage strength of shell in way of tubes *42.5*
 If Drum has a flat side state method of staying Depth and thickness of girders at centre
 if fitted Distance apart Number and pitch of stays in each Working pressure
 by rules *250* Steam Drum Heads or Ends:—Material *Steel* Thickness *13/16"* Radius *36"*
 Size of Manhole or Handhole *15" x 11" Reinforced* Drums:—Number in each boiler *One* Inside Diameter *8" 7/4" sq.*
 Material of plates *Steel* Thickness *2 1/16"* Range of tensile strength *60000-70000* Are drum shell plates welded
 or flanged *Yes* Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in
 long. 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 Pitch of tube holes
 Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material Thickness
 Radius or how stayed Size of manhole or handhole Headers or Sections:—Number *14*
 Material *Steel* Thickness Tested by Hydraulic Pressure to *500 lb* Material of Stays
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter *2"*
 Thickness *#10* Number *615* 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
 by Rules Crown or End Plates:—Material Thickness How stayed
 SUPERHEATER. Type *B & W* Date of Approval of Plan Tested by Hydraulic Pressure to *500 lb*
 Date of Test *3/4"* Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler
 Diameter of Safety Valve *3/4"* Pressure to which each is adjusted *260* Is easing gear fitted *Yes*
 Is a drain cock or valve fitted at lowest point of superheater *Yes* Number, diameter, and thickness of tubes *72-2" #10 B & W*
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,
The Babcock & Wilcox Co. Manufacturer.
Hubbard

Dates of Survey { During progress of *1925-Sept. 3-16-25* Is the approved plan of boiler forwarded herewith *Yes*
 while { During erection on *1926-Oct. 29 Dec. 1st* Total No. of visits *5*
 building { board vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The workmanship and material are both of good quality. These boilers have been reerected on board, all mountings fitted satisfactory, and tested by hydrostatic pressure and found satisfactory. Safety valves adjusted to blow freely at 250 lb S.H.P.*

Survey Fee ... *\$90.00* When applied for *21 Jan 27*
 Travelling Expenses (if any) £ : : When received, *19*

Committee's Minute *NEW YORK JAN 19 1927*

Assigned *+ N.D.B. 12.26*

Steam Pressure *250 lb*

Alexander Mac Watt
 Engineer Surveyor to Lloyd's Register of Shipping.