

REPORT ON WATER TUBE BOILERS.

No. 28452

21 JAN 1928

Received at London Office

Date of writing Report 6 Jan. 1928 When handed in at Local Office 6 Jan. 1928 Port of New York

No. in Survey held at New York Date, First Survey 5th Oct. '25 Last Survey 29th Dec. 1927

Reg. Bk. 3467 on the Steel Tr. Co. Sr. "J. A. Moffett, Jr." Number of Visits 5 Tons 9563
5210 Master Kearny, H. J. Built at New York, N.Y. By whom built Federal S. B. Co. When built 1921

Engines made at do. By whom made do. When made 1921

Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1926

NOMINAL Registered Horse Power 1053 Owners Standard Oil Co. (N.Y.) Shipping Co. Port belonging to New York

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel

Letter for Record Two Water Tube Date of Approval of plan April 13th 1925 Number and Description or Type Two Water Tube

No. of Certificate 480, 481 Working Pressure 250 Tested by Hydraulic Pressure to 500 lb Date of Test 5 Oct 1925

Can each boiler be worked separately yes Total Heating Surface of Boilers 3182

Is forced draught fitted yes Area of fire grate (coal) in each Boiler — Total grate area of boilers in vessel including Main and Auxiliary —

No. and type of burners (oil) in each boiler 2 No. and description of safety valves on each boiler 2 spring loaded Area of each valve 4.91 sq. in. 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 —

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 lb Are drum shell plates welded or flanged — Description of riveting:—

Cir. seams SR long. seams DRDBS 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 3/4" 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

Does Drum have 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 lb Steam Drum Heads or Ends:—Material Steel Thickness 13/16 Radius 36"

Size of Manhole or Handhole 15 1/2" Reinforced Water Drums:—Number in each boiler One Inside Diameter 7 1/2" sq.

Material of plates Steel Thickness 9/16 Range of tensile strength 60000 - 70000 Are drum shell plates welded or flanged Welded

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 Sections:—Number 14

Material Steel Thickness — Tested by Hydraulic Pressure, to 500 Material of Stays —

Area at smallest part — Area supported by each stay — Working Pressure by Rules 250 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 —

Rules — Crown or End Plates:—Material — Thickness — How stayed —

PERHEATER. Type B & W Date of Approval of Plan — Tested by Hydraulic Pressure to 500 lb

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 3/4" Pressure to which each is adjusted — Is easing gear fitted —

Is a drain cock or valve fitted at lowest point of superheater yes Number, diameter, and thickness of tubes 72 - 2", #10 BWG.

Pressure Gear. Tubes — Gaskets or joints:—Manhole — Handhole — Handhole plates —

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

Dates } During progress of 1925 - Oct. 5, 13. Is the approved plan of boiler forwarded herewith yes
 Survey } work in shops - - -
 while } During erection on 1927 31 Sept 27 Dec. 29 Dec. Total No. of visits 5.
 building } board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These water tube donkey boilers have been
submitted under Special Survey in accordance with the Rules & approved plans & the workmanship & material are
found to be in good & safe working condition & eligible in our opinion, to receive the notation 2 W.T.D.B. 27.
250 lbs, subject to being annually surveyed

Survey Fee £ \$90.00 When applied for, 13/1/19
 Travelling Expenses (if any) £ : : When received, 19

A Mac Watt. John S. Heck
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JAN 11 1928
 Signed 2 W.T.D.B - 250 lbs Steam Pressure

