

REPORT ON WATER TUBE BOILERS.

No. 27187

Received at London Office

L. 25. 13. 21.

Date 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 N.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
 } Net
 Master Built at Kearny N.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 N.J. By whom made Babcock & Wilcox Co When made 1926
 Registered Horse Power Owners Standard Oil Co (N.J.) Port belonging to New York

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Luker & 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 ✓ 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 1-2 1/2 Duplex ✓ Area of each valve 4.91 ✓ Pressure to which they are adjusted 250 ✓
 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 ✓ 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 1/4" 29" ✓
 Material of plates Steel Thickness 2 1/16" ✓ Range of tensile strength 60000-70000 Are drum shell plates welded

or flanged ✓ 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 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 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.
 Hubbody

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

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 1927
 Travelling Expenses (if any) £ : : When received, 19

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

Committee's Minute NEW YORK JAN 19 1927
 Assigned + N.D.B. 12.26
 Steam Pressure 250 lb □

