

REPORT ON WATER TUBE BOILERS.

No. 6863

Received at London Office

17 FEB 1933

Date of writing Report JAN 31st 1933 When handed in at Local Office

19

Port of San Francisco Calif

No. in Survey held at Quincy, Mass + San Francisco Date, First Survey 4 Feb 1932. Last Survey Jan 27th 1933
 Reg. Bk. 6674 on the T.W. S.C. S/S LURLINE (Number of Visits 9) Gross 18021 Tons Net 10559
 Master Built at Quincy, Mass By whom built Bethlehem S.B. Corp² When built 1932
 Engines made at Quincy, Mass By whom made a² When made 1932
 Boilers made at Bayonne N.J. By whom made Babcock + Wilcox Co. When made 1932
 NOMINAL Horse Power 5363 Owners Oceanic S.S. Co. Port belonging to San Francisco
 Manufacturers of Steel Bethlehem Steel Co.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
 (Letter for Record 5.) Date of Approval of plan Number and Description or Type
 of Boilers 12 Babcock + Wilcox Working Pressure 400 lbs Tested by Hydraulic Pressure to 600 lbs Date of Test
 No. of Certificate Can each boiler be worked separately yes Total Heating Surface of Boilers 53520 sq ft
 Is forced draught fitted yes Area of fire grate (coal) in each boiler 4 B.H. No and description of safety valves on
 Main and Auxiliary No. and type of burners (oil) in each boiler 4 B.H. Pressure to which they are adjusted 400 lbs
 each boiler 2 spring loaded Area of each valve 9.62 sq ft
 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 APPLE Height of Boiler 18' 7 1/2" Width and Length 16' 0" x 13' 8"
 Steam Drums:—Number in each boiler ONE Inside diameter 41 5/8" Material of plates STEEL Thickness 1 5/16"
 Range of Tensile Strength 60-70000 LBS Are drum shell plates welded or flanged No Description of riveting:—
 Cir. seams DOUBLE long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 3/32" Pitch of Rivets 6"
 Lap of plate or width of butt straps 21 3/4" Thickness of straps 1 5/8" + 1" Percentage strength of long. joint:—Plate 82.8 Rivet 104
 Diameter of tube holes in drum 4 1/2" Pitch of tube holes 7" Percentage strength of shell in way of tubes 87.5
 1932 If Drum has a flat side state method of staying Depth and thickness of girders at centre
 1932 (if fitted) Distance apart Number and pitch of stays in each Working pressure
 by rules Steam Drum Heads or Ends:—Material STEEL Thickness 1 1/8" Radius or how stayed 41 5/8" R.
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler ONE Inside Diameter 6" sq
 Material of plates STEEL Thickness 5/8" Range of tensile strength 55000 LBS Are drum shell plates welded
 or flanged SEAMLESS 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 STEEL Thickness 7/8"
 Radius or how stayed FLAT Size of manhole or handhole 4 1/2" x 5 1/2" Headers or Sections:—Number 22
 Material STEEL Thickness 1 7/32" Tested by Hydraulic Pressure to 1000 LBS Material of Stays NONE
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2" + 4"
 Thickness 134" + 203" Number 731 2" 44" 4" Steam Dome or Collector:—Description of Joint to Shell NONE
 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 800 LBS
 Date of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler NOT SHUT
 Diameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted OFF
 Is a drain cock or valve fitted at lowest point of superheater YES Number, diameter, and thickness of tubes 204 - 1 1/2" - 120"
 Spare Gear. Tubes 50 - 4" Gaskets or joints:—Manhole 124 Handhole 50 Handhole plates 50
 50 - 2"

The foregoing is a correct description,

THE BABCOCK & WILCOX CO. Manufacturer.

J. H. King, Mgr. Marine Dept. FORWARDED WITH 56 MARIPOSA
Is the approved plan of boiler forwarded herewith

Dates of Survey } During progress of } work in shops - - }
 while } During erection on } board vessel - - - }
 building } 1932 4 Feb 2+4 Nov. 19, 20, 21 DEC Total No. of visits 9
 JAN 25, 26, 27, 1933.

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

These water tube boilers have not been built under Special Survey but they have been examined & the workmanship & material are good. They have been tested by American Bureau of Shipping & U.S. Govt Inspectors. They are now in good & safe working condition & eligible, in our opinion, to receive the notation 400 LBS in the Register Book.

Survey Fee ... £ CHARGED: } When applied for, ✓ 10
 Travelling Expenses (if any) £ ON HULL } When received, ✓ 10
 RPT FORM

J. H. Archibald & John S. Heck
 Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK FEB 8 - 1933

Assigned 12 W.T.B. - Steam Pressure 400 lbs per sq. inch

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