

REPORT ON WATER TUBE BOILERS.

No. 6695

Received at London Office

27 JUN 1932

Date of writing Report 19 When handed in at Local Office 19 Port of SAN FRANCISCO CAL.

No. in Survey held at Boston Mass + San Francisco Date, First Survey 7 April 1932 Last Survey 5th June 1932
 Reg. Bk. 41281 on the T.W. SC. S/S MONTEREY (Number of Visits 5) Gross 18017 Tons Net 10580
 Master Built at Quincy Mass By whom built Bethlehem S. B. Corp When built 1932
 Engines made at Quincy, Mass By whom made d= When made 1932
 Boilers made at Bayonne N.J. By whom made Babcock + Wilcox Co. When made 1932
 Registered Horse Power 22000 SHP Owners Oceanic S.S. Co. Port belonging to San Francisco

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

(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 _____ Total grate area of boilers in vessel including Main and Auxiliary _____

No. and type of burners (oil) in each boiler 4 B + W. No. and description of safety valves on each boiler 2 spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 400 lbs

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 18'-7 1/2" Width and Length 16' 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 5/16" + 1" Percentage strength of long. joint:—Plate 82.8 Rivet 104

Diameter of tube holes in drum 4 3/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 87.5

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 _____

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 3/8"

Radius or how stayed FLAT. NOT STAYED Size of manhole or handhole 4 1/2" x 5 1/2" Headers or Sections:—Number 22

Material STEEL Thickness 9/16" Tested by Hydraulic Pressure to 1000 lbs Material of Stays _____

Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules 400 lbs Tubes:—Diameter 2" x 4"

Thickness 134" x 203" Number 740-2" 44-4" 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 600 lbs

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 _____ 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 204 - 1 1/2" - 120"

Spare Gear. Tubes 50-4" Gaskets or joints:—Manhole 12 Handhole 50 Handhole plates 50

50-2"

The foregoing is a correct description, BABCOCK & WILCOX CO. Manufacturer.

Dates of Survey } During progress of work in shops - - }
 while building } During erection on board vessel - - - }
 1932 Apr. 8, 27 JUNE 1-3 Is the approved plan of boiler forwarded herewith S/S MARIPOSA S. F. RPT 6623
 Total No. of visits 5

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

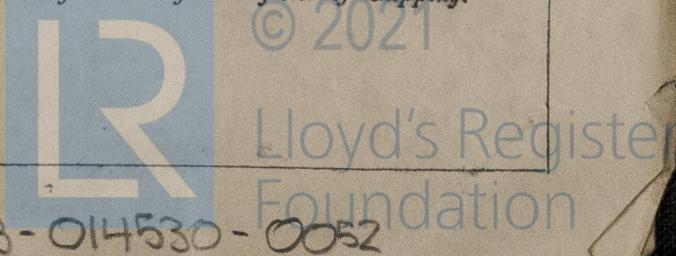
These boilers have not been built under Special Survey but they have been examined + they comply with the Rules + approved plans, + the workmanship + material are good. They are now in good + safe working condition + eligible, in our opinion, to receive the notation

Survey Fee ... £ See bill. When applied for, ✓ 19
 Travelling Expenses (if any) £ spot. When received, ✓ 19

F. E. Archbold + John S. Heck
Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK JUN 15 1932

Committee's Minute Assigned 12 W.T.B. Steam Pressure 400 lbs per sq. inch



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