

REPORT ON WATER TUBE BOILERS.

No. 4825

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Reporting Report. 1st April, 1947 When handed in at Local Office. 1st April, 1947 Port of Galveston, Texas
 Survey held at Galveston, Texas Date, First Survey 19th February Last Survey 7th March, 1947
 on the S/S "JOHN JACOB ASTOR" (Number of Visits 4) { Gross 7176 Tons }
 { Net 4380 }
 Made at Portland, Ore. By whom built Oregon S. B. Corp. When built 1943
 Made at Portland, Ore. By whom made Iron Fireman Mfg. Co. When made 1943
 Made at Saginaw, Mich. By whom made The Wickes Boiler Co. When made 1943
 Horse Power 634.8 Owners Scindia Steam Navigation Co. Port belonging to Bombay

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens & Carnegie Steel Co.

Approval of plan Two - Water tube Working Pressure 250 Tested by Hydraulic Pressure to 375 Date of Test 26/7/43
 Certificate Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft. 7529 sq. ft.
 Draught fitted Yes Area of fire grate (coal) in each Boiler = 10,233

Type of burners (oil) in each boiler Four Todd "Hex-Press" No. and description of safety valves on
 One twin consolidated Area of each set of valves per boiler { per rule 22.9 sq. inches }
 { as fitted 25.12 sq. inches } Pressure to which they

Weight 250 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 16' 5 5/8"

Length 14' 7 3/4" x 18' 7 1/2" Steam Drums:—Number in each boiler One Inside diameter 47 3/8"
 Thickness of plates 15/16" Range of Tensile Strength 70,000 - 82,000 lbs. Are drum shell plates welded
 welded If fusion welded, state name of welding firm - Have all the requirements of the rules

Vessels been complied with Built under ABS & USCG Description of riveting:—Cir. seams - long. seams -
 Rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 Plate - Rivet - Diameter of tube holes in header 4 1/64 Pitch of tube holes 7"

Strength of shell in way of tubes 42.5 Steam Drum Heads or Ends:—Range of tensile strength 60,000-70,000 lbs.
 Thickness of plates 15/16" Radius or how stayed 38" Size of manhole or handhole 12" x 16" Water Drums:—Number
 None Inside Diameter Square Thickness of plates 3/4" Range of tensile strength 60,000-70,000 Are drum shell plates
 flanged Solid drawn If fusion welded, state name of welding firm - Have all the requirements of the rules

Vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seam -
 Rivet holes in long. seams - Pitch of rivets - Thickness of straps -
 Strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -

Strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength -
 Thickness of plates - Radius or how stayed - Size of manhole or handhole -

Sections:—Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 375 lbs.
 Diameter 2" and 4" Thickness 10 & 6 B.W.G. Number 602 & 44 Steam Dome or Collector:—Description of
 Inside diameter - Thickness of shell plates - Range of tensile
 Description of longitudinal joint - If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -
 Thickness of straps - Percentage strength of long. joint - Plate - Rivet -
 End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

HEATER. Headers:—Number in each boiler Two Inside Diameter 6" square
 5/8" Material Steel Range of tensile strength 60,000 - 70,000 Are drum shell plates welded
 Forged If fusion welded, state name of welding firm - Have all the requirements of the rules

Vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seams -
 Rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of

in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -
 Radius or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes 22-2" 10 B.W.G.
 Tested by Hydraulic Pressure to 375 lbs. Date of Test 26/7/43 Is a safety valve fitted to each section of the superheater which
 off from the boiler Yes No. and description of Safety Valves One high lift Area of each set
 1.76 sq. inches Pressure to which they are adjusted 230 lbs. Is easing gear fitted No

Has the spare gear required by the rules been supplied Yes

This is a typical First Entry Report.

The foregoing is a correct description,

During progress of work in shops - - }
 During erection on board vessel - - - }

Any alterations found should be duly reported.

Is the approved plan of boiler forwarded herewith
 Total No. of visits

AL REMARKS (State quality of workmanship, opinions as to class, &c.) The two W. T. boilers described above have, with all mountings, been opened up, examined throughout, placed in order, and again examined team and in the opinion of the undersigned, the workmanship is good, the boilers well and suitable to be classed with this Society with record of BS 3-47.

Fee £ \$115.00 When applied for, 27/3/ 1947
 Expenses (if any) £ : : } When received, 19

NEW YORK APR 16 1947

James Lindsay
 Engineer Surveyor to Lloyd's Register of Shipping.

ee's Minute
 2 W T B - 250 lbs (SPT)

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