

# REPORT ON WATER TUBE BOILERS.

No. 142.

NEW YORK Dec. 12, 1919.

Received at London Office

Writing Report 6<sup>th</sup> Decem. 1919 When handed in at Local Office 14<sup>th</sup> Decem. 1919

Port of Jacksonville Fla. 1920

Survey held at Jacksonville, Fla. Date, First Survey 2<sup>nd</sup> August. Last Survey 2<sup>nd</sup> Decem. 1919  
 on the Steel Screw Steamer "JACKSONVILLE"  
 Number of Visits 19  
 Tons { Gross 3853.87  
 Net 2376  
 When built 1919-12  
 When made 1918  
 When made 1918  
 Owners U.S. Shipping Board (Emer. Steel Corp.) Port belonging to Jacksonville, Fla.

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

Boilers Two Badenhausen Working Pressure 200 lbs. Tested by Hydraulic Pressure to 400 lbs. Date of Test 16 Oct 1919  
 of Certificate Can each boiler be worked separately Yes. Total Heating Surface of Boilers 6120 sq ft.  
 forced draught fitted induced Area of fire grate (coal) in each Boiler  
 No. and type of burners (oil) in each boiler 4 Dahl.  
 boiler one 3 1/2" duplex Area of each valve 19.24 sq in. Pressure to which they are adjusted 200 lbs.  
 they fitted with easing gear Yes. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler  
 Collest distance between boilers or uptakes and bunkers or woodwork 18" Height of Boiler 14'-9" Width and Length 14'-4" x 11'-10 1/2"  
 Drum Drums:—Number in each boiler 1 Inside diameter 30" Material of plates A.H. Steel Thickness 3/4"  
 ge of Tensile Strength Are drum shell plates welded or flanged no Description of riveting:—  
 seams 1" spaced 2 1/2" long. seams 1" spaced 2.93" Diameter of rivet holes in long. seams 1 1/16" Pitch of Rivets 2.93"  
 of plate or width of butt straps 7 1/4" x 6 1/2" Thickness of straps 1/2" Percentage strength of long. joint:—Plate Rivet  
 meter of tube holes in drum 2.53" Pitch of tube holes 5 1/4" x 3 3/4" Percentage strength of shell in way of tubes  
 Drum has a flat side state method of staying Depth and thickness of girders at centre  
 fitted Distance apart Number and pitch of stays in each Working pressure  
 26<sup>th</sup> Aug. Steam Drum Heads or Ends:—Material A.H. Steel Thickness 3/4" Radius or how stayed 30" radius  
 Oct. 1919 of Manhole or Handhole 11" x 15" Water Drums:—Number in each boiler 2 Inside Diameter 30"  
 erial of plates A.H. Steel Thickness 3/4" Range of tensile strength Are drum shell plates welded  
 flanged no Description of riveting:—Cir. seams 1" spaced 2 1/2" long. seams 1" spaced 2.93" Diameter of Rivet Holes in  
 194 W. & S. seams 1 1/16" Pitch of rivets 2.93" Lap of plates or width of butt straps 7 1/4" x 6 1/2" Thickness of straps 1/2"  
 centage strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes  
 centage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material A.H. Steel Thickness 3/4"  
 n Do. us or how stayed 30" radius Size of manhole or handhole 11" x 15" Headers or Sections:—Number  
 n Do. A.B. 11/16" Thickness Tested by Hydraulic Pressure to Material of Stays  
 a at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2 1/2" O.D.  
 ckness 16/16 Number 612 Steam Dome or Collector:—Description of Joint to Shell 17-2 1/2" tubes  
 centage strength of Joint Diameter 8" i.d. Thickness of shell plates 1/2" Material Steel  
 cription of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell  
 Rules Crown or End Plates:—Material Steel Thickness 1/2" How stayed welded  
 ERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to  
 e of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler  
 meter of Safety Valve Pressure to which each is adjusted Is easing gear fitted  
 drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes  
 are Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - - - Aug 2, 9, 13, 15, 23, 30 Sept. 5, 18, 19, 20, 25, 29. Oct. 8, 16, 23  
 During erection on board vessel - - - Nov. 8, 26 Dec. 2  
 Is the approved plan of boiler forwarded herewith Yes.  
 Total No. of visits 19.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have not been  
 built under special survey, but have been checked with plans & subjected to  
 of 400 lbs & showed no sign of weakness at that pressure. Safety valves have  
 adjusted to 200 lbs under steam.

Survey Fee ... £ : ✓ : } When applied for, 191  
 Travelling Expenses (if any) £ : ✓ : } When received, 191

Hugh Boyle  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York DEC 23 1919

signed

See other Rpt

Lloyd's Register  
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 W505-0202