

REPORT ON WATER TUBE BOILERS.

No. 7314
SER (See New York Report No. 37658)
(See Cleveland Rpt. No. 850)

Received at London Office

Date of writing Report Aug 12 1937 When handed in at Local Office Aug 12 1937 Port of Philadelphia
 No. in Survey held at Danville N.Y. Cuttack N.S. Chester Pa Date, First Survey 2nd April Last Survey July 20 1937
 Reg. Bk. S S M V. LOUISIANA. (Number of Visits 23) Tons Gross not available
 on the S S M V. LOUISIANA. Master Lehesto Pa Built at Lehesto Pa By whom built Sam S B & D D Co When built 1937
 Engines made at Lehesto Pa By whom made Sam S B & D D Co When made "
 Boilers made at Cuttack N.Y. By whom made Foster Wheeler Corp When made "
 Nominal Registered Horse Power 1197 Owners The Texas Company Port belonging to Wilmington Del

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY. — Manufacturers of Steel Lukens Steel Co
 (Letter for Record S) Date of Approval of plan 12 March 1937 Number and Description of Type
 of Boilers 1. Watertube Exhaust Gas fired only. Working Pressure 227 lb Tested by Hydraulic Pressure to 341 lb Date of Test 6 July 1937
 No. of Certificate 708 Can each boiler be worked separately Yes Total Heating Surface of Boilers 1872 sq ft
 Is forced draught fitted No Area of fire grate (coal) in each Boiler Motor vessel Exhaust gas fired only Total grate area of boilers in vessel including
 Main and Auxiliary Two spring loaded No. and type of burners (oil) in each boiler 1.77" No. and description of safety valves on
 each boiler Yes Area of each valve 1.77" Pressure to which they are adjusted 227 lb
 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 1 Height of Boiler 10'-11 3/4" Width and Length 5'-11 3/4" x 10'-11"
 Steam Drums:—Number in each boiler 1 Inside diameter 30" Material of plates Steel Thickness 3/16"
 Range of Tensile Strength 6500 to 7000 lb Are drum shell plates welded or flanged Union Welded Description of riveting:—
 Cir. seams Union Welded long. seams Union Welded Diameter of rivet holes in long. seams " Pitch of Rivets "
 Lap of plate or width of butt straps Butt joint Thickness of straps " Percentage strength of long. joint:—Plate 90% allowed Rivet "
 Diameter of tube holes in drum 2 1/32" Pitch of tube holes 4 7/8" Percentage strength of shell in way of tubes 58.4
 If Drum has a flat side state method of staying No flat side 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 Plain 3/16" Radius or how stayed 30" R
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler None Inside Diameter "
 Material of plates " Thickness " Range of tensile strength " 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 None Thickness "
 Radius or how stayed " Size of manhole or handhole " Headers or Sections:—Number None
 Material " Thickness " Tested by Hydraulic Pressure to " Material of Stays "
 Area at smallest part " Area supported by each stay " Working Pressure by Rules " Tubes:—Diameter 2"
 Thickness 1/20" Number 80 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 None Date of Approval of Plan " Tested by Hydraulic Pressure to "
 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 " Number, diameter, and thickness of tubes "
 Spare Gear. Tubes " Gaskets or joints:—Manhole " Handhole " Handhole plates "

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - { April 2, 5, 8, 12, 16, 19, 22, 26, 29 at New York.
 { During erection on board vessel - - - { May 3, 6, 10, 14, 18. June 7 at Danville. Is the approved plan of boiler forwarded herewith
May 10, 17, 20 June 8, 23. July 2, 6, 20 1937 Total No. of visits 23

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boiler has been built under Special Survey, and in accordance with the approved plans. The workmanship & materials are good, the boiler has been satisfactorily installed on board the vessel, tested by hydraulic pressure to 341 lb & safety valves adjusted under steam to 227 lb. In my opinion the boiler is eligible to receive the notation of 1 W.T.D.B. exhaust gas fired only. 227 lb
 Installation \$25.00 : When applied for, 24 August 1937
 Travelling Expenses (if any) \$5.00 : When received, 22/10/37
Main fee charged at Cleveland. W.A. Runham
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK AUG 25 1937

Assigned 1 W.T.D.B. (Exhaust gas fired) - 227 lb

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