

REPORT ON WATER TUBE BOILERS.

No. 37661

Received at London Office

SEP 7 1937

Date of writing Report 4 JUNE 1937 When handed in at Local Office 4 JUNE 1937 Port of NEW YORK

No. in Survey held at NEW YORK Date, First Survey 2 APRIL Last Survey 20 MAY 1937

Reg. Bk. on the SUN S. B. Co HULL 163 (Number of Visits 15) Tons 15 Gross Net

Master Built at Chester Pa By whom built Sun S. B. Co. When built 1937

Engines made at Chester Pa By whom made Sun S. B. Co. When made 1937

Boilers made at Cantant R. J. By whom made Foster Wheeler Corporation (B608/9) When made 1937

NOMINAL Registered Horse Power 1197 Owners The Texas Co. Port belonging to

WATER TUBE BOILERS—~~MAIN, AUXILIARY, OR~~ DONKEY.—Manufacturers of Steel LUKENS STEEL Co.

(Letter for Record S.) Date of Approval of plan 7 MAY 1937 Number and Description or Type of Boilers TWO WATERTUBE (ATYPE) Working Pressure 227 LBS Tested by Hydraulic Pressure to 454 LBS Date of Test

No. of Certificate Can each boiler be worked separately YES Total Heating Surface of Boilers 6000 SQ FT

Is forced draught fitted Area of fire grate (coal) in each Boiler OIL FIRED Total grate area of boilers in vessel including Main and Auxiliary No. and type of burners (oil) in each boiler 3 TODD No and description of safety valves on each boiler 2 SPRING LOADED Area of each valve 7.07 SQ IN Pressure to which they are adjusted 227 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 17'-5 3/4" Width and Length 16'-3 1/2" x 9'-9 3/8"

Steam Drums:—Number in each boiler ONE Inside diameter 46" Material of plates STEEL Thickness 27/32"

Range of Tensile Strength 65/75000 LBS Are drum shell plates welded or flanged FUSION WELDED Description of riveting:—

Cir. seams FUSION WELDED long. seams FUSION 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" + 1 1/32" Pitch of tube holes 3 1/32" + 2 3/32" Percentage strength of shell in way of tubes 43.47%

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 230 LBS Steam Drum Heads or Ends:—Material STEEL Thickness 3/16" + 3/4" Radius on how stayed 42" R

Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler TWO Inside Diameter 30"

Material of plates STEEL Thickness 9/16" Range of tensile strength 65/75000 LBS Are drum shell plates welded or flanged FUSION WELDED Description of riveting:—Cir. seams FUSION WELDED long. seams FUSION WELDED 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 90% ALLOWED Rivet Diameter of tube holes in drum 2 1/32" + 1 1/32" Pitch of tube holes 3 1/32" + 2 3/32"

Percentage strength of drum shell in way of tubes 43.47% Water Drum Heads or Ends:—Material STEEL Thickness 19/32" + 15/32"

Radius on how stayed 30" R Size of manhole or handhole 12" x 16" 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" + 1 1/2"

Thickness 134" + 109" Number 66-2, 910-1 1/2 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 Handhole plates

Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

THESE DRUMS ARE DESIGNATED STEAM DRUMS 608-3 609-3 The foregoing is a correct description, WATER " { 608-1 609-1 Foster Wheeler Corp. Manufacturer.

608-2 609-2 John J. Healy Vice President

Dates of Survey 1937 During progress of work in shops APR 2, 5, 8, 12, 16, 19, 22, 26, 29 MAY 3, 6, 10, 14, 18, 20 Is the approved plan of boiler forwarded herewith YES

while building During erection on board vessel Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Fusion Welded Drums for these boilers

for the above vessel have been built in accordance with the Rules & approved plans & the workmanship & material

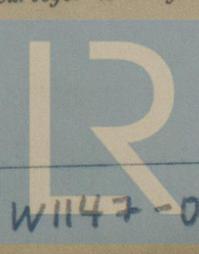
are good. For particulars of tests please see Special Report attached. The drums have been forwarded to Philadelphia to

be tested on board, & when this has been done in accordance with the Rules & to the satisfaction of the Surveyor

the boilers will be eligible, in my opinion, to receive the notation 2 W.T.D.B. 227 LBS

Survey Fee ... £ \$300.00 When applied for Chargeable at

Travelling Expenses (if any) £ NY 15.00 When received, Phila. 1937 John S. Heck Engineer Surveyor to Lloyd's Register of Shipping.

To BE DIVIDED 50% - N.Y. 50% - PHILA NEW YORK AUG 25 1937 Wm See attached Report. Phil. No. 7314  © 2020 Lloyd's Register Foundation W1147-0028