

# REPORT ON WATER TUBE BOILERS.

No. 816

Received at London Office

MAY 10 1937

Date of writing Report Feb. 12th, 1937 When handed in at Local Office

19

Port of Cleveland, Ohio.

No. in Survey held at Cleveland, Ohio & Dansville, N.Y. Date, First Survey Jan. 15th, Last Survey Jan. 20th, 1937

Reg. Bk. on the Sun Shipbuilding & Dry Dock Co. Hull No. 159 (Number of Visits 2) Tons { Gross Net

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

Engines made at Dansville, N.Y. By whom made When made

Boilers made at Chester, Pa. By whom made Foster Wheeler Corp. (No 586) When made 1937

Registered Horse Power Owners Sun Oil Co. Port belonging to

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

Letter for Record Date of Approval of plan November 7th, 1936 Number and Description or Type

f Boilers One Water Tube Working Pressure 245 Tested by Hydraulic Pressure to Date of Test

No. of Certificate Can each boiler be worked separately Total Heating Surface of Boilers 5260 sq.ft.

Is forced draught fitted 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 No. and description of safety valves on

each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Width and Length

Steam Drums:—Number in each boiler 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 plate 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 shell in way of tubes

Does drum have 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

Rules Steam Drum Heads or Ends:—Material Thickness Radius or how stayed

Size of Manhole or Handhole Water Drums:—Number in each boiler Inside Diameter

Material of plates Thickness Range of tensile strength Are drum shell plates welded

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 Thickness

Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 22 sections

Material Steel Thickness 5/8" Tested by Hydraulic Pressure to 368 Lbs. Material of Stays

Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2"

Thickness No. 10 BWG Number 660 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

Rules Crown or End Plates:—Material Thickness How stayed

## SUPERHEATER. Type 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

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

The foregoing is a correct description,  
Foster Wheeler Corp. Manufacturer.  
By B. G. Habington, Supt.

Dates Survey } During progress of } Cleveland, O. Jan. 15th, 1937. Is the approved plan of boiler forwarded herewith  
work in shops - - } Dansville, N.Y. Jan. 20th, 1937.  
While } During erection on } Total No. of visits 2 Cleveland  
building } board vessel - - - }

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

The headers for this boiler were made in accordance with the Rules and Approved Plans and the workmanship and materials are good. They have been tested to 368 lbs. hydraulic pressure with satisfactory results.

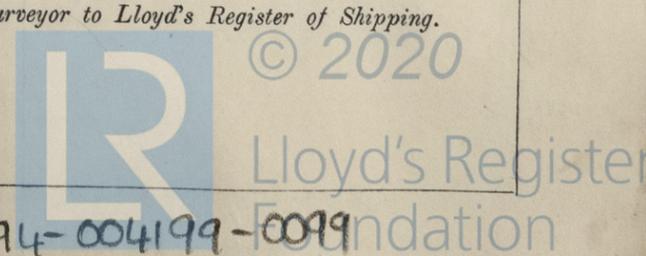
The headers have been shipped to Cartaret, New York, to be fitted to the steam drum.

Survey Fee ... \$150.00 : When applied for 20th April 1937 at Phila.  
Travelling Expenses (if any) \$ Clv. \$5.00 } When received, See Phil. 7272

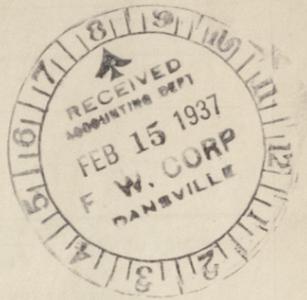
Committee's Minute NEW YORK APR 28 1937

Signed See attached Rpt. Phil. 7272

Edmund  
Engineer Surveyor to Lloyd's Register of Shipping.



004194-004199-0019



*John Walsh*



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