

# REPORT ON WATER TUBE BOILERS.

No. 1005

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19

Port of Cleveland, Ohio.No. in Survey held at Dansville, N.Y. Date, First Survey August 18th, Last Survey August 19th, 1940.

Reg. Bk.

on the (Sun Shipbuilding & Dry Dock Co's Hull No. 196)(Number of Visits 2)Gross  
Tons  
Net

Master \_\_\_\_\_ Built at \_\_\_\_\_ By whom built \_\_\_\_\_ When built \_\_\_\_\_

Engines made at Dansville, N.Y. By whom made \_\_\_\_\_ When made \_\_\_\_\_Boilers made at Chester, Pa. By whom made Foster Wheeler Corp. (FWB-402) When made 1940Registered Horse Power \_\_\_\_\_ Owners Sun Oil Company Port belonging to \_\_\_\_\_

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

(Letter for Record \_\_\_\_\_) Date of Approval of plan \_\_\_\_\_ Number and Description or Type of Boilers (1) Water Tube Working Pressure 245# Tested by Hydraulic Pressure to 368# Date of Test 8/19/40

No. of Certificate \_\_\_\_\_ Can each boiler be worked separately \_\_\_\_\_ Total Heating Surface of Boilers \_\_\_\_\_

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 \_\_\_\_\_

If Drum has 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

by 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

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 \_\_\_\_\_ Thickness \_\_\_\_\_

Radius or how stayed \_\_\_\_\_ Size of manhole or handhole \_\_\_\_\_ Headers or Sections:—Number 22-SectionsMaterial Steel Thickness 11/16 Av. Wall 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 #10. B.W.G. Number 748 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

by 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 \_\_\_\_\_

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of August 18th and 19th, 1940.  
while } work in shops - - -  
building } During erection on }  
board vessel - - -Is the approved plan of boiler forwarded herewith ☒Total No. of visits 2

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.) Headers for this boiler, also a mud

drum 7-1/4" square, 11/16" average wall thickness, 16'-0-3/4" length, and a superheater header

8-5/8" O.D., 7/8" thickness, 13'-0" length, made from seamless steel tubes, were examined and tested

to 368 lbs., hydraulic pressure. These boiler parts were constructed in accordance with the Rules

and approved plans, and the materials and workmanship were found good.

This material has been shipped to the Foster Wheeler Corp., Carteret, N.Y.

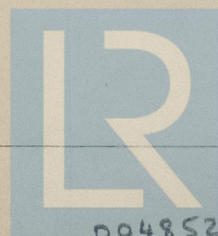
Survey Fee ... : When applied for, 4 JAN. 1941, AT PHIL.Travelling Expenses (if any) \$12.00 : When received, 19

J. Drummond

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK JAN 8 - 1941

Assigned See attached Report Chl. No. 7989.

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Foundation

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