

REPORT ON WATER TUBE BOILERS.

*headers, etc. for oil fired mud drum boiler
& for Exhaust Gas Boiler*

Received at London Office FEB 17 1941

Date of writing Report **Sept. 17, 1940.** When handed in at Local Office 19 **Port of Cleveland, Ohio.**

No. in Survey held at **Dansville, New York.** Date, First Survey **August 18th,** Last Survey **August 19th 1940.**
 Reg. Bk. **(Sun Shipbuilding & Dry Dock Co's Hull No. 196)** (Number of Visits **2**) } Gross **-**
 - on the **(Sun Shipbuilding & Dry Dock Co's Hull No. 196)** Tons } Net **-**
 Master **-** Built at **-** By whom built **-** When built **-**
 Engines made at **Dansville, N.Y.** By whom made **-** (FWB 475-6) When made **-**
 Boilers made at **Chester, Pa.** By whom made **Foster Wheeler Corp. (& WHB 190)** When made **1940**
 Registered 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 **(2) 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 **-** **Sections:**—Number **(9) Sections**
 Material **Steel** Thickness **11/16 Av. Wall** Tested by Hydraulic Pressure to **368#** Material of Stays **-**
 Area at smallest part **-** Area supported by each stay **-** Working Pressure by Rules **-** **Tubes:**—Diameter **2"**
 Thickness **#1-. B.W.G.** Number **288** **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 work in shops **- -** **August 18th and 19th, 1940.** Is the approved plan of boiler forwarded herewith **-**
 while building } During erection on board vessel **- - -** Total No. of visits **-**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **Headers for these boilers, also a mud drum 7-1/4" square, 5/8" average wall thickness, 6'8" length, and 2 Collector headers 6-5/8" O.D., 1/2" thickness, 7'-9-3/8" 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., Cartaret, N.Y.
 Survey Fee ... : } When applied for, **4 JAN. 1941, AT PHIL.**
 Travelling Expenses (if any) **x \$12.00** : } When received, **19**
E. Drummond
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **NEW YORK JAN 8 - 1941**
 Assigned *See attached Report Phil. No. 7969.*

