

*Oil fired stand by boiler*

# REPORT ON WATER TUBE BOILERS.

No. **40553**

FEB 17 1941

Received at London Office

Date of writing Report **22<sup>nd</sup> Oct** 1940. When handed in at Local Office

19 **Part of NEW YORK**

No. in Survey held at **NEW YORK** Date, First Survey **23/8** Last Survey **26/9** 1940.  
 Reg. Bk. on the **M.V. "AMERICA JUN"** (Number of Visits **4**) Tons { Gross **11,355**  
 Net **6891**  
 Master Built at **CHESTER, PA** By whom built **SUN SB & D. Co (N. 196)** When built **1940**  
 Engines made at By whom made When made **1940**  
 Boilers made at **CARTERET, N.J.** By whom made **FOSTER WHEELER CORP. (F.W.B. 475)** When made **1940**  
 Registered Horse Power Owners Port belonging to

**WATER TUBE BOILERS** ~~MANUFACTURED BY~~ **OIL FIRED STAND-BY** ~~DONKEY~~ **MANUFACTURERS OF STEEL** **BETHLEHEM STEEL CO.**  
 (Letter for Record **S.**) Date of Approval of plan **8<sup>th</sup> AUGUST, 1940** Number and Description or Type  
 of Boilers **ONE, F.W. MARINE CROSS-DRUM W.T.** Working Pressure **245 LB.** Tested by Hydraulic Pressure to **368** Date of Test **17-9-40**  
 No. of Certificate **NONE ISSUED** Can each boiler be worked separately **YES** Total Heating Surface of Boilers **1258 SQ. FT.**  
 Is forced draught fitted **YES** 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 **ONE TOOD** No. and description of safety valves on  
 each boiler **2 SPRING-LOADED** Area of each valve **1.77 INS<sup>2</sup>** 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 **NO WOODWORK** Height of Boiler **15'-1" O/A** Width and Length **11'-9" x 7'-0"**  
**Steam Drums:**—Number in each boiler **ONE** Inside diameter **36"** Material of plates **STEEL** Thickness **3/4"**  
 Range of Tensile Strength **65,000 LB. MINIMUM** Are drum shell plates welded or flanged **FUSION WELDED** Description of riveting:—  
 Cir. seams **FUSION WELD** long. seams **FUSION WELD** Diameter of rivet holes in long. seams Pitch of Rivets **✓**  
 Lap of plate or width of butt straps **BUTT WELD** Thickness of straps Percentage strength of long. joint:—Plate **✓** Rivet **✓**  
 Diameter of tube holes in drum **4 3/32"** Pitch of tube holes **7"** Percentage strength of shell in way of tubes **42.2**  
 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 **2 3/32" + 1 9/32"** Radius or how stayed **ELLIPSOIDAL**  
 Size of Manhole or Handhole **12" x 16"** **MUD** **Water Drums:**—Number in each boiler **ONE** Inside Diameter **7 1/4" SQUARE**  
 Material of plates **STEEL** Thickness **5/8"** Range of tensile strength **55,000 LB. MIN** Are drum shell plates welded  
 or flanged **SOLID DRAWN** 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 **HEADER** **2 3/32"** 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** **18** **Material of Stays** **✓**  
 Material **STEEL** Thickness **5/8"** Tested by Hydraulic Pressure to Material of Stays **✓**  
 Area at smallest part **✓** Area supported by each stay **✓** Working Pressure by Rules **✓** **Tubes:**—Diameter **2" + 4"**  
 Thickness **.134" + .165"** Number **288 + 9** **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 **✓** 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,

FOSTER WHEELER CORPORATION

Manufacturer.

Dates of Survey } During progress of work in shops - - } **23/8, 28/8, 17/9, 26/9/40**  
 while building } During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith

VICE PRESIDENT

Total No. of visits

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) *The Fusion Welded Drum for this boiler has been built & tested in accordance with the approved plan & Rules for Fusion Welded Pressure Vessels & the workmanship & material are good. For particulars of tests please see report attached hereto. This drum has been forwarded to Chester, Pa. to be fitted on board & when this has been done in accordance with the Rules & to the satisfaction of the Surveyor, the vessel will be eligible, in our opinion, to receive the notation 3. W.T.D.B. (1 SPT). 245 LB.*

Survey Fee ... £ **\$ 150.00.**

When applied for, **4 JAN. 1941 AT PHIL.**

Travelling Expenses (if any) £ **\$ 6.00.**

When received, **19**

**John S. Heck** *e. macpherson*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

**NEW YORK JAN 8 - 1941**

Assigned *See attached Report Chl. No. 7969.*



Lloyd's Register Foundation