

REPORT ON WATER TUBE BOILERS.

No. 40553

Received at London Office

FEB 17 1941

Date of writing Report 22nd 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 SUN" (Number of Visits 4) Tons { Gross 11,355
 Net 6891
 Master Built at CHESTER, PA By whom built SUN S.B. & D.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 OIL FIRED STAND-BY M.V. "AMERICA SUN" OR DONKEY.—Manufacturers of Steel BETHLEHEM STEEL CO.
 (Letter for Record S.) Date of Approval of plan 8th AUGUST, 1940 Number and Description or Type 490 17-9-40
 of Boilers ONE, F.W. MARINE CROSS-DRUM W.T. Working Pressure 245 LB. Tested by Hydraulic Pressure to 368 Date of Test
 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 INS² 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 Number 18
 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

Total No. of visits

VICE PRESIDENT

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 & Macpherson

Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned See attached Report Chl. No. 7969.

NEW YORK JAN 8 - 1941



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004852-004860-0108