

## REPORT ON WATER TUBE BOILERS.

No. 8037

Date of writing Report 27 April 1941 When handed in at Local Office 5 May 1941 Port of Philadelphia  
 No. in Survey held at Lehigh Pa Date, First Survey 26 Nov 1940 Last Survey 19 March 1941  
 Reg. Bk. M/V ATLANTIC SUN (Number of Visits 8) Gross 11355 Tons Net 6891  
 Master James M/V Built at Lehigh Pa By whom built Sam SRS & DD Co When built 1941  
 Engines made at Lehigh Pa By whom made Sam SRS & DD Co When made "  
 Boilers made at Carteret By whom made Foster Wheeler Corporation When made "  
 Registered Horse Power " Owners Sam Gil Co Port belonging to Philadelphia

**WATER TUBE BOILERS** ~~MAIN, AUXILIARY, OR~~ DONKEY. Manufacturers of Steel Carnegie Steel Co  
 (Letter for Record S. WT) Date of Approval of plan 12 March 1940 Number and Description or Type 490 lb  
 of Boilers 1 cargo hold sectional tank type Working Pressure 245 lb Tested by Hydraulic Pressure to 365 lb Date of Test 17.12.40  
 No. of Certificate 730 Can each boiler be worked separately Yes Total Heating Surface of Boilers 5260  
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 50 sq ft Total grate area of boilers in vessel including  
 Main and Auxiliary 2 Spring loaded No. and type of burners (oil) in each boiler 2 Crosby high lift No. and description of safety valves on  
 each boiler 2 Spring loaded Area of each valve 12.56 sq in Pressure to which they are adjusted 245 lb  
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Motor ship  
 Smallest distance between boilers or uptakes and bunkers or woodwork 13' 4" of center Height of Boiler 16' 3" x 12' 8" Width and Length 15' 16"  
**Steam Drums:**—Number in each boiler 1 Inside diameter 42" Material of plates Steel Thickness 15/16"  
 Range of Tensile Strength 60000 lb minimum Are drum shell plates welded or flanged fusion welded Description of riveting:—  
 Cir. seams fusion welded long. seams fusion welded 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 90% allowed  
 Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.4  
 If Drum has a flat side state method of staying no flat side Depth and thickness of girders at centre  
 (if fitted) 250 lb Distance apart " Number and pitch of stays in each " Working pressure "  
 by rules 250 lb **Steam Drum Heads or Ends:**—Material Steel Thickness 15/16" Radius or how stayed 42"  
 Size of Manhole or Handhole 12" x 16" **Water Drums:**—Number in each boiler None 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"  
 Material Steel Thickness 11/16" Tested by Hydraulic Pressure to 368 lb Material of Stays "  
 Area at smallest part 134 Area supported by each stay " Working Pressure by Rules " **Tubes:**—Diameter 2"  
 Thickness 134 Number 748 **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 "

**UPERHEATER.** Type Radiant Date of Approval of Plan 12/3/40 Tested by Hydraulic Pressure to 368 lb  
 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 28 - 2" - 148"  
**Spare Gear.** Tubes " Gaskets or joints:—Manhole " Handhole " Handhole plates "

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of 26.29 Nov 1940. 10.17 Jan 1941 Is the approved plan of boiler forwarded herewith No  
 while } work in shops -- }  
 building } During erection on 23 Jan. 11.18 Feb. 19 March 1941 Total No. of visits 8  
 board vessel -- }

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

This boiler has been built under special  
 way and in accordance with the approved plan, the workmanship & materials are good. The boiler  
 has been satisfactorily installed on board the vessel and tested to 368 lbs hydraulic pressure.  
 safety valves have been adjusted under steam to 245 lb. In my opinion the vessel is  
 fitted to receive the record of 3 WTDB (184) 245 lb.

Cleveland \$ 125.00 Exp 22.75  
 Survey Fee .200.00 £ 36.00 : }  
 125.00 : }  
 Traveling Expenses (if any) £ 5.00 : }  
 450 63.75 : }  
 3rd May 41 (Foster Wheeler)  
 15th May 1941 (Sam SRS Co)  
 When received, 19

Sam SRS for installation 75 \$ Exp 5.00

NEW YORK MAY 28 1941

Committee's Minute

Assigned 1 WTDB (184) 245 LBS.

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation

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