

# REPORT ON WATER TUBE BOILERS.

No. 8037

*Oil fired stand by Boiler*

Date of writing Report 28 April 1941 When handed in at Local Office May 1941 Received at London Office -9 JUL 1941  
 Port of Philadelphia  
 No. in Survey held at Philadelphia Pa Date, First Survey 20 Dec 1940 Last Survey 19 March 1941  
 Reg. Bk. on the M/S. ATLANTIC SUN. (Number of Visits 8)  
 Master Philadelphia Pa Built at Philadelphia Pa By whom built Sim SB Co. Tons Gross 11355  
 Engines made at Philadelphia Pa By whom made Sim SB & D D Co. When built 1940 41  
 Boilers made at Barnet Md By whom made Foster Wheeler Corporation When made 1941  
 Registered Horse Power \_\_\_\_\_ Owners Sim Oil Co Port belonging to Philadelphia

**WATER TUBE BOILERS** Oil fired stand by MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel Carnegie Steel Co  
 Letter for Record \_\_\_\_\_ Date of Approval of plan 8 Aug 1940 Number and Description or Type of Boilers 1FW. Main Conn Pk (W.T.) Working Pressure 245 lb Tested by Hydraulic Pressure to 368 lb Date of Test 18.2.41  
 No. of Certificate 130 Can each boiler be worked separately \_\_\_\_\_ Total Heating Surface of Boilers 12580  
 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 2 Spring loaded Crosby "Lugh lift" eye Area of each valve 1.77 sq in One Best type No. and description of safety valves on each boiler \_\_\_\_\_ Pressure to which they are adjusted 245 lb  
 Are they fitted with easing gear \_\_\_\_\_ 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 \_\_\_\_\_ Height of Boiler 11'-1" Width and Length 11'-9" x 7'-0"  
 Steam Drums:—Number in each boiler 1 Inside diameter 26" Material of plates Steel Thickness 3/4"  
 Range of Tensile Strength 65000 lb minimum Are drum shell plates welded or flanged Union Welded Description of riveting:—  
 Cir. seams Union Welded long. seams Union 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 \_\_\_\_\_ Rivet \_\_\_\_\_  
 Diameter of tube holes in drum 1 1/32" 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 23/32 & 19/32 Radius or how stayed Ellipsoidal  
 Size of Manhole or Handhole 12 x 16" Material of plates Steel Thickness 5/8" Water Drums:—Number in each boiler 1 Inside Diameter 7 1/4" square  
 Material of plates Steel Thickness 5/8" Range of tensile strength 55000 lb Are drum shell plates welded or flanged solid drum 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 2 1/32" 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 or Sections:—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" x 4"  
 Thickness 13/16" & 1/2" 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 None 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 20 Dec. 1. 10 & 17 Jan 1941 Is the approved plan of boiler forwarded herewith \_\_\_\_\_  
 while building 23 Jan 11 Feb. 18 Feb. 19 March 1941 Total No. of visits 8

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey and in accordance with the approved plans. The workmanship & materials are good. The boiler has been satisfactorily installed on board the vessel, and tested to 368 lb hydraulic pressure. 2 safety valves have been adjusted under steam to 245 lb. In my opinion the vessel is fitted to receive the record of 3 WTDB. (1 Sp) 245 lb.

Survey Fee ... £ see other fees When applied for, \_\_\_\_\_ 19 \_\_\_\_\_  
 Travelling Expenses (if any) £ Report fees When received, \_\_\_\_\_ 19 \_\_\_\_\_

W.D. P. Ham  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK MAY 28 1941

Assigned W.T.D.B. (oil fired) - 245 LBS.

