

AIR TANK. REPORT ON ~~WATER TUBE BOILERS~~

No. 8291

Received at London Office

25 JAN 1943

Date of writing Report 19 _____ When handed in at Local Office 19 _____ Port of Philadelphia
 No. in Survey held at Lechester Pa Date, First Survey 7 May 1942 Last Survey 24 Sept 1942
 Reg. Bk. on the S/S GULF MARACAIBO (Number of Visits 2) Gross 9306 Net 8200
 Master _____ Built at Lechester Pa By whom built Sun P B 2 D D Co When built 1942
 Engines made at Birmingham Pa By whom made Westinghouse E M Co When made "
 Boilers made at Lechester Pa By whom made Sun P B 2 D D Co When made "
 Registered Horse Power 900 972 Owners Gulf Oil Co Port belonging to Philadelphia

~~WATER TUBE BOILERS~~ MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel Worth Steel Co

(Letter for Record _____) Date of Approval of plan Aug 7 1941 Number and Description or Type of Boilers 1 Air tank Working Pressure 100 Tested by Hydraulic Pressure to 200 Date of Test July 42
 No. of Certificate 742 Can each boiler be worked separately _____ Total Heating Surface of Boilers 30 cu ft
 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 1 Spring loaded Area of each valve 7854 sq in Pressure to which they are adjusted 100 lbs
 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 5'6"
 Steam Drums:—Number in each boiler 1 Inside diameter 32" Material of plates O H Steel Thickness 7/16"
 Range of Tensile Strength 55665000 lbs Are drum shell plates welded or flanged Fusion Welded 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 O H Steel Thickness 7/16" Radius or how stayed 30"
 Size of Manhole or Handhole 15" X 11" 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 _____ Headers or Sections:—Number _____
 Material _____ Thickness _____ Tested by Hydraulic Pressure to _____ Material of Stays _____
 Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules _____ Tubes:—Diameter _____
 Thickness _____ Number _____ 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 - - } 7 May 1942
 while building } During erection on board vessel - - } 24 Sept 1942
 Is the approved plan of boiler forwarded herewith _____
 Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This air tank has been constructed under Special Survey in accordance with the approved plans, the workmanship & materials are good. It has met all the requirements of the Society's Rules & has been satisfactorily installed on board the vessel. Copy of results attached.

Survey Fee \$ agreed 30.00 : } When applied for, 12th Dec 1942.
 Travelling Expenses (if any) 2.00 : } When received, 19 _____

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

Committee's Minute _____
 Assigned See First Entry Report attached

NEW YORK DEC 16 1942

