

AIR TANK REPORT ON WATER TUBE BOILERS

No. 8299

FEB 1943

Received at London Office

Date of writing Report 1 Nov 1942 When handed in at Local Office 10 Nov 1942 Port of Philadelphia
 No. in Survey held at Lehesto Pa Date, First Survey May 5 1942 Last Survey 24 Aug 1942
 Reg. Bk. on the S/S MARKAY (Number of Visits 3) Tons { Gross 10342 Net
 Master Built at Lehesto Pa By whom built Sam SB & DD Co When built 1942
 Engines made at Lynn Mass By whom made General Electric Co When made 1942
 Boilers made at Lehesto Pa By whom made Sam SB & DD Co When made "
 NOMINAL Registered Horse Power 1726 Owners Keystone Tankship Corp Port belonging to Wilmington Del

WATER TUBE BOILERS AIR TANK MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel North Steel Co
 (Letter for Record air tank) 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 7 May 42
 No. of Certificate 742 Can each boiler be worked separately - Total Heating Surface of Boilers 30 sq 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 7824 Pressure to which they are adjusted 100 lbs
 Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler yes
 Smallest distance between boilers or uptakes and bunkers or woodwork link Height of Boiler OH Steel Width and Length 5'16"
Steam Drums:—Number in each boiler 1 Inside diameter 32" Material of plates OH Steel Thickness 7/16"
 Range of Tensile Strength 55 to 65000 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 OH 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 5 9 18 May 1942 Is the approved plan of boiler forwarded herewith no
 { During erection on board vessel 24 Aug Total No. of visits 3

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 & material are good. The tank has been tested in accordance with the Society's requirements found satisfactory. It has satisfactorily installed on board the vessel & safety valve adjusted to 100 lb. Test results attached

Survey Fee 30.00 : When applied for, 30th Nov. 1942
 Travelling Expenses (if any) As agreed : When received, 19

W.D. Cumham

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JAN 13 1943
 Assigned See attached First Entry Report



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