

REPORT ON WATER TUBE BOILERS.

No. 8081

Received at London Office 20 SEP 1941

Date of writing Report June 31st 1941 When handed in at Local Office July 5 1941 Port of Philadelphia
 No. in Survey held at Chester Pa Date, First Survey 1st April 1941 Last Survey 25th April 1941
 Reg. Bk. on the S/S STANVAC MELBOURNE (Number of Visits 3) Gross 1001.3 Tons Net 639.7
 Master Built at Chester Pa By whom built Sam Ship Bldg Co When built 1941
 Engines made at Essington Pa By whom made Westinghouse E & M Co When made "
 Boilers made at Barberton Ohio By whom made Babcock & Wilcox Co When made "
 NOMINAL Registered Horse Power 1006 Owners Port belonging to

WATER TUBE BOILERS Air tank MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Lukens
 (Letter for Record) Date of Approval of plan Feb 1 1941 Number and Description or Type of Boilers 1 air tank Working Pressure 125 lb Tested by Hydraulic Pressure to 250 lb Date of Test
 No. of Certificate 731 Can each boiler be worked separately Total Heating Surface of Boilers 27 cu ft capacity
 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 - 3/4" eye Area of each valve .44 sq in Pressure to which they are adjusted 125 lb
 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' 16"
Steam Drums:—Number in each boiler 1 Inside diameter 31 3/8" Material of plates Steel Thickness 7/16"
 Range of Tensile Strength 55 to 65000 lb 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% 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 Steel Thickness 7/16" Radius or how stayed 30"
 Size of Manhole or Handhole 15" X 15" **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.
Chief Engineer
Sam Ship Building & Dry Dock Co. Manufacturer.

Dates of Survey During progress of work in shops Is the approved plan of boiler forwarded herewith No
 while building During erection on board vessel 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 and in accordance with the approved plans, the workmanship & materials are good. The air tank has been tested in accordance with the rules & found satisfactory. The X-rays tension & bend tests of fusion welded joints were found satisfactory. The air tank has been satisfactorily installed on board the vessel.

Survey Fee \$ 30 : 00 : When applied for, 12th July 1941
 Travelling Expenses (if any) \$ 2 : 00 : When received, 19

W. W. Punham
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK AUG 13 1941

Assigned See attached First Entry Report.

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 Foundation
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