

REPORT ON WATER TUBE BOILERS.

No. 8120

Received at London Office

4 NOV 1941

Date of writing Report 2 Sept 1941 When handed in at Local Office 6 Sept 1941 Port of Philadelphia Pa
 No. in Survey held at Chester Pa Date, First Survey April 14 Last Survey Aug 5 1941
 Reg. Bk. on the S/S. STANVAC. WELLINGTON (Number of Visits 3) Tons { Gross 10013 Net 6397
 Master Sm PB 9 D D Co Built at Chester Pa By whom built Sm PB 9 D D Co When built 1941
 Engines made at Exnington Pa By whom made Westinghouse E & M Co When made "
 Boilers made at Barberton Ohio By whom made Babcock & Wilcox Co When made "
 Registered Horse Power — Owners Petroleum Shipping Co Port belonging to Panama

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR DONKEY~~ ^{air tank} Manufacturers of Steel Lukens Steel Co
 (Letter for Record air tank) Date of Approval of plan Feb 1 1941 Number and Description or Type of Boilers 1 air tank Working Pressure 125 lbs Tested by Hydraulic Pressure to 250 Date of Test 22-5-41
 No. of Certificate 734 Can each boiler be worked separately ✓ Total Heating Surface of Boilers 27 cube 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 1 - 3/4" jets No. and description of safety valves on each boiler — Area of each valve 440" Pressure to which they are adjusted 125 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 5/16"
Steam Drums—Number in each boiler 1 Inside diameter 31 3/8" Material of plates Steel Thickness 5/16"
 Range of Tensile Strength 55 to 65000 lbs Are drum shell plates welded or flanged Seam 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 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 3"
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,
W. W. Knecht Manufacturer.
Sm Shipbuilding & Dry Dock Co

Dates of Survey } During progress of work in shops -- } April 14 May 22 1941 Is the approved plan of boiler forwarded herewith —
 while building } During erection on board vessel --- } Aug 5 1941 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 & materials are good. The tank has been tested in accordance with the Society's requirements & found satisfactory. The X-rays have been examined & found in good order. Attached are reports of the test specimens. The tank has been satisfactorily installed on board the vessel.

Survey Fee ... \$ 30 : 00 : } When applied for, 18th Sept. 1941
 Travelling Expenses (if any) \$ 3 : 00 : } When received, 19

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

NEW YORK OCT 1 1941
J. E. J.

Committee's Minute —
 Assigned See attached Rpt.

