

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 By whom built Sm PB 9 D D Co When built 1941
 Engines made at Birmingham 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 lb 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 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 1- 3/4" gas No and description of safety valves on each boiler 440" 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 31 3/8" Height of Boiler Steel 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 lb Are drum shell plates welded or flanged 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"
 Size of Manhole or Handhole 15x15" **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. Cumham 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

NEW YORK OCT 1 1941

Committee's Minute

Assigned See attached Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



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