REPORT ON WATER TUBE BOILERS. No. 25439

Received at London Office 24 DEC 1948

Report 25th.Nov 19 48. When handed in at Local Office 25th.Nov. 19 48. Port of NEWPORT, Mon.

Survey held at NEWPORT, Mon. Date, First Survey 21st. October Last Survey 19th.November 19 48.

(Number of Visits 4)

Name S.S. "ST.ARVANS" (Ex "Samlyth") Tons Gross 7247 Net 4419

Built Baltimore By whom built The Bethlehem Fairfield Shpyd. Inc. Yard No. - When built 1944 - 2mo.

Engines Harrison, N.J. By whom made Worthington Pump & Machinery Corp. Engine No. - When made "

Boilers Saginaw, Mich. By whom made The Wickes Boiler Co. Boiler No. 11 & 12 When made "

Horse Power 635 Owners The South American Saint Line, Ld Port belonging to Newport, Mon.

TUBE BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel -

Approval of plan ✓ - No. and Description or Type

Two - Water Tube - Babcock Type Working Pressure 230lbs (250 lbs) Tested by Hydraulic Pressure to 375lbs. Date of Test 20.1.44.

Date - Can each boiler be worked separately Yes ✓ Total Heating Surface of Boilers 10,232 sq. ft. ✓

Weight fitted Yes ✓ Area of Fire Grate (coal) in each Boiler -

No. of burners (oil) in each boiler Four - HEX - Press No. and description of safety valves on each boiler Duplex Spring loaded ✓ Area of each set of valves per boiler per rule 22.9 sq.ins. as fitted 25.12 " " ✓ Pressure to which they are set 230 (250) lbs. Are they fitted with easing gear Yes ✓ In case of donkey boilers state whether steam from main boilers can enter boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 16'-5½"

Length 14'-7¾" x 18'-7½" **Steam Drums:**—Number in each boiler One ✓ Inside diameter 47.5/8 ✓

Plates 15/16" ✓ Range of tensile strength - Are drum shell plates welded or fusion welded ✓ If fusion welded, state name of welding firm - Have all the requirements of the Rules for Class I vessels been complied with Built under ABS & USCG Description of riveting:—Circ. seams - long. seams -

Rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of Plate - Rivet - Diameter of tube holes in drum 4.1/64" ✓ Pitch of tube holes 7" ✓

Length of shell in way of tubes - **Steam Drum Heads or Ends:**—Range of tensile strength -

Plates 15/16" ✓ Radius ~~XXXXXXXX~~ 38" ✓ Size of manhole or handhole 16" x 12" ✓ **Water Drums:**—Number one ✓ Inside diameter Square Thickness of plates 3/4" ? 3/8" Range of tensile strength - Are drum shell plates welded solid drawn If fusion welded, state name of welding firm - Have all the requirements of the Rules for Class I vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Circ. seams - long. seams -

Rivet holes in long. seams - Pitch of rivets - Thickness of straps -

Length of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -

Length of drum shell in way of tubes - **Water Drum Heads or Ends:**—Range of tensile strength -

Plates - Radius or how stayed - Size of manhole or handhole -

Connections:—Number 22. ✓ Material Steel Thickness 9/16" ✓ Tested by hydraulic pressure to 375 lbs.

Diameter 2" & 4" ✓ Thickness 10 & 6 BWG ✓ Number 612 & 44. **Steam Dome or Collector:**—Description of -

Inside diameter - Thickness of shell plates - Range of tensile strength -

Description of longitudinal joint - If fusion welded, state name of welding firm -

Have all the requirements for the Rules for Class I vessels been complied with - Diameter of rivet holes -

Thickness of straps - Percentage strength of long. joint - plate - rivet -

Tube Plates:—Range of tensile strength - Thickness - Radius or how stayed -

WATER. Drums or Headers:—Number in each boiler Two ✓ Inside ~~XXXXX~~ 6" sq. section ✓

Plates 5/8" ✓ Material Steel Range of tensile strength - Are drum shell plates welded or fusion welded forged If fusion welded, state name of welding firm - Have all the requirements of the Rules for Class I vessels been complied with ABS & USCG Description of riveting:—Circ. seams - long. seams -

Rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of Plate in way of tubes - **Drum Heads or Ends:**— - Thickness - Range of tensile strength -

Radius or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes 22 @ 2", 10 BWG

Hydraulic pressure to 375 lbs. Date of test - Is a safety valve fitted to each section of the superheater which can be shut off from the boiler Yes No. and description of safety valves One - 1.1/2" spring loaded single consolidated pipe Area of each set 1.76 sq. ins. Pressure to which they are adjusted 220 lbs. ✓ Is easing gear fitted ✓ No

Has the spare gear required by the Rules been supplied Yes ✓

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - - - Is the approved plan of boiler forwarded herewith -

During erection on board vessel - - - Total No. of visits

Is this a duplicate of a previous case Yes If so, state vessel's name and report No. Liberty Type - EC2-S-C1 Vessels

REMARKS (State quality of workmanship, opinions as to class, &c. The two water tube boilers described above have been opened out with all mountings, examined throughout, placed in good order, and examined under steam. In the opinion of the Undersigned, the workmanship is good, the boilers are installed and suitable to be classed with this Society with record of B.S.11,48.

Fee ... ... £ ✓ : ✓ : When applied for 19

Travelling Expenses (if any) £ ✓ : ✓ : When received 19

J. L. Smith

Engineer Surveyor to Lloyd's Register of Shipping.

See minute on Jr. opl.

EW 25/1/49

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