

REC'D NEW YORK MAR 31 1921

REPORT ON WATER TUBE BOILERS.

No. 19377

Received at London Office

TUE. 12 APR. 1921

Report 22nd March 1921 When handed in at Local Office 28th March 1921 Port of New York

Survey held at Red Bank N.J. Date, First Survey 21 April Last Survey 18th March 1921

on the S.S. "MOUNT GARROLL" Number of Visits 4 Gross 4469 Tons Net 4454

Builder F. SMITH Built at Chester By whom built Merchant S. B. Corp When built 1921

Made at Washington Pa By whom made Westinghouse & T M Co When made 1921

Made at Red Bank N.J. By whom made Roberts Safety Water Tube Boiler Co When made May 1920.

Horse Power Owners Shawmut Steamship Co Port belonging to New York

TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Lukens Steel Co.

Record S Date of Approval of plan 27 May 1920 Number and Description or Type

One Roberts Type Working Pressure 250 Tested by Hydraulic Pressure to 500 Date of Test 28 May 20

Capacity 367 Can each boiler be worked separately Total Heating Surface of Boilers 550 sq. ft.

Brought fitted No Area of fire grate (coal) in each Boiler 20 sq. ft. Total grate area of boilers in vessel including

Auxiliary No. and type of burners (oil) in each boiler No. and description of safety valves on

One 2" "American" Area of each valve 3.14 sq. in Pressure to which they are adjusted 220

Equipped with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No

Distance between boilers or uptakes and bunkers or woodwork 20" Height of Boiler Width and Length

Boilers: Number in each boiler one Inside diameter 17 1/4 Material of plates steel Thickness 3/8"

Tensile Strength 60000 / 71680 lbs. Are drum shell plates welded or flanged Description of riveting: -

long. seams D.R. lap Diameter of rivet holes in long. seams 13/16 Pitch of Rivets 2 1/2

Width of butt straps 3 9/16 Thickness of straps Percentage strength of long. joint: - Plate 67.5 Rivet 94

Tube holes in drum 1 3/16 Pitch of tube holes 3 1/16 Percentage strength of shell in way of tubes 68

Has a flat side state method of staying Depth and thickness of girders at centre

Distance apart Number and pitch of stays in each Working pressure 3-13 1/2 series

300 lbs. Steam Drum Heads or Ends: - Material steel Thickness 1/2 Radius or how stayed stays riv. holes

Manhole or Handhole Water Drums: - Number in each boiler 2 Inside Diameter 3 1/2 tubes

Plates steel Thickness 2 1/6 Range of tensile strength Are drum shell plates welded

Description of riveting: - Cir. seams long. seams Diameter of Rivet Holes in

Pitch of rivets Lap of plates or width of butt straps Thickness of straps 3 1/16

Strength of long. joint: - Plate Rivet Diameter of tube holes in drum 1 3/16 Pitch of tube holes 3 1/16

Strength of drum shell in way of tubes 68 Water Drum Heads or Ends: - Material steel casting Thickness

How stayed Size of manhole or handhole Headers or Sections: - Number

Thickness Tested by Hydraulic Pressure to Material of Stays Tubes: - Diameter 1"

Smallest part Area supported by each stay Working Pressure by Rules

#9 BWG Number 30 Steam Dome or Collector: - Description of Joint to Shell

Strength of Joint Diameter Thickness of shell plates Material

Of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell

Crown or End Plates: - Material Thickness How stayed

Superheater Type Tubular Date of Approval of Plan 27 May 1920 Tested by Hydraulic Pressure to 500 lbs

Date 28 May 1920 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

Safety Valve Pressure to which each is adjusted Is easing gear fitted

Cock or valve fitted at lowest point of superheater yes Number, diameter, and thickness of tubes 1 1/4 dia #7 BWG

Cur. Tubes Gaskets or joints: - Manhole Handhole Handhole plates

The foregoing is a correct description, Roberts Safety Water Tube Boiler Manufacturers.

Per. David L. Lloyd

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

During progress of work in shops April 21. May 27 & 28 / 1920.

During erection on board vessel

AL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special

approved plans to order of Merchants Shipbuilding Corp. & to be shipped to Chester, Pa. & fitted on

their hull, N. 379 & 380, contracted for by the Shawmut Steamship Corp. The material &

workmanship are good & efficient. To complete survey, safety valves are to be adjusted under

This boiler has been well fitted on board & safety valves adjusted under steam pressure

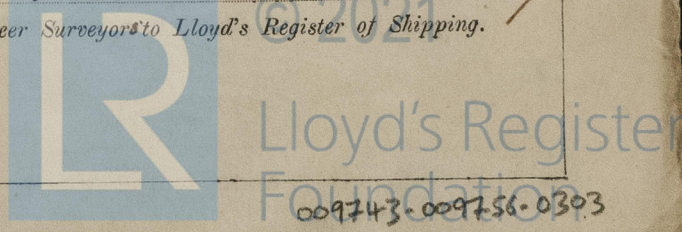
Fee ... £ 50 : When applied for 18/11/1920

Eng Expenses (if any) £ 4 : When received 27/4/1921

Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute New York APR - 5 1921

See Phil. Rpt 4138



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