

REPORT ON WATER TUBE BOILERS.

No. 6582

SEP - 6 1938

Received at London Office

Date of writing Report July 19th 1938 When handed in at Local Office July 19th 1938 Port of Baltimore Md.

No. in Survey held at Baltimore Md Date, First Survey Aug 12th 1937 Last Survey July 12th 1938
 Reg. Bk. 38042 on the Steam Tug Se oil tanker "Esso Baton Rouge" (Number of Visits 10) Tons 7989
 Master Capt. Heenrich Built at Spanaway P. Md. By whom built Baltimore S. B. Corp When built 1937-38
 Engines made at Quincy, Mass. By whom made Bethlehem S. B. Corp When made 1937
 Boilers made at Davenport & Carleton N.Y. By whom made Forke-Wheeler Corp. When made 1937
 Registered Horse Power 3600 Owners Standard Oil Co. of NEW JERSEY Port belonging to Wilmington, Del.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens & Carnegie Pa.

(Letter for Record ☒) Date of Approval of plan DESIGN PRES 450th Number and Description or Type of Boilers TWO-FOSTER WHEELER Type "D" MARINE Working Pressure 450th Tested by Hydraulic Pressure to 675th Date of Test Nov 4th 1937
 No. of Certificate ☒ Can each boiler be worked separately ☒ Total Heating Surface of Boilers 9856 sq. ft.
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler Oil burning Total grate area of boilers in vessel including Main and Auxiliary Yes No. and type of burners (oil) in each boiler 3-Turn Modsk "FD" No. and description of safety valves on each boiler Two - three inch Area of each valve 5.21 approx Pressure to which they are adjusted 450th
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ☒
 Smallest distance between boilers or uptakes and burners or woodwork EASING 2'-6" Height of Boiler 20'-3 1/2" Width and Length 10'-9 1/2" x 16'-11 1/8"
 Steam Drums:—Number in each boiler One Inside diameter 42 ins Material of plates Steel A.H. Thickness 1 1/2"
 Range of Tensile Strength 60,000 + Neat 55000 Are drum shell plates welded or flanged Welded Description of riveting:—
 Cir. seams Welded long. seams Welded Diameter of rivet holes in long. seams ☒ Pitch of Rivets ☒
 Lap of plate or width of butt straps None Thickness of straps None Percentage strength of long joint:—Plate ☒ Rivet ☒
 Diameter of tube holes in drum 2 1/2" + 1 3/4" Pitch of tube holes 9'-4 1/2" 2 1/4" 2 1/4" Percentage strength of shell in way of tubes 48.7, 51, 54.8
 If Drum has a flat side state method of staying Drum Circular Depth and thickness of girders at centre (if fitted) ☒
 Distance apart ☒ Number and pitch of stays in each ☒ Working pressure by rules 450th Steam Drum Heads or Ends:—Material Steel A.H. Thickness 1 1/2" + 1 3/4" Boilers or how stayed Conder
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler One Inside Diameter 32"
 Material of plates Steel A.H. Thickness 1 1/8" Range of tensile strength 60,000 + 55,000 Are drum shell plates welded or flanged Welded Description of riveting:—Cir. seams Welded long. seams Welded Diameter of Rivet Holes in long. seams ☒ Pitch of rivets ☒ Lap of plates or width of butt straps 2 1/2" + 1 3/4" Thickness of straps None
 Percentage strength of long joint:—Plate Welded Rivet ☒ Diameter of tube holes in drum 2 1/2" + 1 3/4" Pitch of tube holes 9'-4 1/2" 2 1/4" 2 1/4"
 Percentage strength of drum shell in way of tubes 48.7, 51, 54.8 Water Drum Heads or Ends:—Material Steel A.H. Thickness 1 1/2" + 1 3/4"
 Radius or how stayed Conder Size of manhole or handhole 12" x 16" Headers or Sections:—Number Two
 Material Steel Thickness 3/4" WALL 7 1/4" 1/2" Tested by Hydraulic Pressure to 675th on board Material of Stays ☒
 Area at smallest part 7 3/4" square Area supported by each stay NONE C.S. Working Pressure by Rules Approved Diameter 2" + 1 1/4"
 Thickness 10 + 12 gauge Number 414 - 1 1/2" Steam Dome or Collectors:—Description of Joint to Shell NONE
 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 FW. DRAINABLE Date of Approval of Plan ☒ Tested by Hydraulic Pressure to 675th ON BOARD SHIP
 Date of Test Nov 4th 1937 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 425 Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 138 - 1 1/2" + 12
 Spare Gear. Tubes 32 @ 2 1/2" Gaskets or joints:—Manhole 5 Handhole ☒ Handhole plates 9

The foregoing is a correct description,

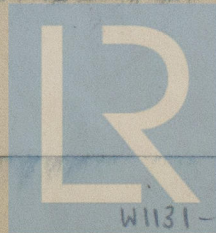
Manufacturer.

Notes of Survey ☒ During progress of work in shops ☒ Is the approved plan of boiler forwarded herewith ☒
 while building ☒ During erection on board vessel ☒ Date Aug 12th 1937 - March 4th 1938 Total No. of visits Ten (10)

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) These boilers have not been built under Special Survey but have been installed in place on the vessel in compliance with the Society's Rules. & the workmanship & materials are good. During Construction the Boilers stated to have been specially surveyed by the Surveyors to the American Bureau of Shipping & materials certified. Boilers seen under steam & satisfactory

Survey Fee Inclusive fee charged When applied for ☒ 10
 Travelling Expenses (if any) on machinery Rpt. When received ☒ 10

Cy. Lastic M. Stewart
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK AUG 24 1938Assigned 2 W.T.B. (Spt.) - 450 lbs.

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