

# REPORT ON WATER TUBE BOILERS

No. 8158

10 MAY 1945

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of writing Report 13th Apr. 1945 When handed in at Local Office 13th Apr. 1945 Port of Baltimore, Maryland  
 Date, First Survey Sept. 8th, 1944 Last Survey January 17th, 1945  
 Survey held at Baltimore, Maryland (Number of Visits 4) {Gross 7886  
 Tons {Net 4453  
 on the M. V. "LAVORO"  
 By whom built Cantieri Riuniti Dell' Adriatico When built 1938  
 By whom made Soc. An. "FIAT" S.G.M. When made 1938  
 By whom made Cantieri Riuniti Dell' Adriatico When made 1938  
 Owners A. Lauro Port belonging to Naples  
 Indicated Horse Power 929.6

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel**

Number and Description or Type  
 of Approval of plan  
3 starting air receivers Working Pressure 425 lbs. Tested by Hydraulic Pressure to  
 Date of Test  
 of Certificate. Can each receiver be worked separately. Yes Total Heating Surface of Boilers  
 forced draught fitted. Area of fire grate (coal) in each Boiler  
 and type of burners (oil) in each boiler. No. and description of safety valves on  
 boiler. Area of each set of valves per boiler {per rule  
 as fitted Pressure to which they  
 adjusted. Are they fitted with easing gear. In case of donkey boilers state whether steam from main boilers can enter  
 donkey boiler. Smallest distance between boilers or uptakes and bunkers or woodwork. Height of boiler. 48.75"  
 dth and Length. 1.125 Drums:—Number in each boiler. Range of Tensile Strength. Are drum shell plates welded  
 thickness of plates. 1.125 If fusion welded, state name of welding firm. Description of riveting:—Cir. seams S.R. Butt long. seams D. R. Butt  
 flanged. 1.125 Pitch of rivets 5.75 Thickness of straps {Outer .8125  
 Inner .75" Percentage strength of  
 Class I vessels been complied with. Diameter of rivet holes in long. seams. 1.125 Rivet 97% Diameter of tube holes in drum. Pitch of tube holes.  
 g. joint:—Plate 80.4% Rivet 97% Steam Drum Heads or Ends:—Range of tensile strength. Water Drums:—Number  
 percentage strength of shell in way of tubes. Radius or how stayed radiused Size of manhole or handhole 16 1/4 x 12 1/2 Are drum shell plates  
 thickness of plates. 1" Inside Diameter. Thickness of plates. Range of tensile strength. Have all the requirements of the rules  
 each boiler. If fusion welded, state name of welding firm. Description of riveting:—Cir. seams. long. seam.  
 lded or flanged. Class I vessels been complied with. Pitch of rivets. Thickness of straps.  
 Diameter of rivet holes in long. seams. Rivet. Diameter of tube holes in drum. Pitch of tube holes.  
 percentage strength of long. joint:—Plate. Rivet. Water Drum Heads or Ends:—Range of Tensile strength.  
 percentage strength of drum shell in way of tubes. Radius or how stayed. Size of manhole or handhole.  
 thickness of plates. Material. Thickness. Tested by Hydraulic Pressure to.  
 Headers or Sections:—Number. Material. Thickness. Number. Steam Dome or Collector:—Description of  
 Diameter. Thickness. Range of tensile  
 Inside diameter. Thickness of shell plates. If fusion welded, state name of welding  
 length. Description of longitudinal joint. Diameter of rivet holes.  
 Have all the requirements of the rules for Class I vessels been complied with. Plate. Rivet.  
 Thickness of straps. Percentage strength of long. joint. Radius or how stayed.  
 Thickness. Diameter of rivet holes.  
 Crown or End Plates:—Range of tensile strength. Thickness. Inside Diameter.  
**SUPERHEATER. Drums or Headers:—**Number in each boiler. Range of tensile strength. Are drum shell plates welded  
 thickness. Material. Range of tensile strength. Have all the requirements of the rules  
 flanged. If fusion welded, state name of welding firm. long. seams.  
 or Class I vessels been complied with. Description of riveting:—Cir. seams. long. seams. Percentage strength of  
 diameter of rivet holes in long. seams. Pitch of rivets. Thickness of straps. Percentage strength of  
 ng. joint:—Plate. Rivet. Diameter of tube holes in drum. Pitch of tube holes. Percentage strength of  
 drum shell 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.  
 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. No. and description of Safety Valves. Area of each set  
 valves. Pressure to which they are adjusted. Is easing gear fitted.

Spare Gear. Has the spare gear required by the rules been supplied.

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith. No

Total No. of visits

Dates of Survey } During progress of }  
 while building } work in shops - - }  
 } During erection on }  
 } board vessel - - - }

If so, state vessel's name and report No.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
The three starting air receivers examined throughout at this time and the quality of materials and workmanship appear to be of a standard suitable for classification with this society.

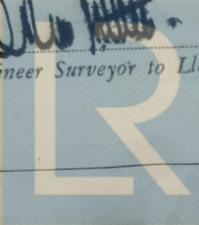
Survey Fee £ - : : } When applied for, - 19  
 Travelling Expenses (if any) £ - : : } When received, 19

Committee's Minute  
 Assigned Transmit to London

NEW YORK APR 18 1945

J. G. B.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

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