

# REPORT ON WATER TUBE BOILERS.

No. 99612.  
23 DEC 1931

Received at London Office

Port of Liverpool  
 Date, First Survey 13/10/31 Last Survey 9/12/1931  
 (Number of Visits 5)  
 Gross 59.73  
 Net 1.69  
 Tons  
 Survey held at Saltney, Chester  
 Date, First Survey 13/10/31 Last Survey 9/12/1931  
 on the S. S. Maria  
 Built at Saltney By whom built Messrs J. G. & Co. Ltd  
 When made 1931  
 By whom made Messrs J. G. & Co. Ltd  
 When made 1931  
 Owners Rev. de Janeiro City Improvement Co. Port belonging to Rev. de Janeiro

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Cobville & Co. Glasgow

Boilers 5 Working Pressure 200 lb Tested by Hydraulic Pressure to 350 lb Date of Test 16.10.31  
 of Certificate 5 Can each boiler be worked separately ✓ Total Heating Surface of Boilers 900 sq ft  
 Forced draught fitted Yls Area of fire grate (coal) in each Boiler ✓ Total grate area of boilers in vessel including  
 in and Auxiliary ✓ No. and type of burners (oil) in each boiler 2 White (SS) No and description of safety valves on  
 boiler Two spring loaded high lift Area of each valve 2.40 sq in Pressure to which they are adjusted 205 lb  
 they fitted with easing gear Yls In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓  
 Distance between boilers or uptakes and bunkers or woodwork 6-8 1/2 Height of Boiler 14 ft 6 in  
 Drum Drums:—Number in each boiler 1 Inside diameter 48 in Material of plates Steel Width and Length 14 ft 6 in  
 of Tensile Strength 48,000 lb Are drum shell plates welded or flanged ✓ Thickness 1/2 in Description of riveting:—  
 seams long. seams Diameter of rivet holes in long. seams 1/4 in Pitch of Rivets 2 in  
 of plate or width of butt straps 1/2 in Thickness of straps 1/2 in Percentage strength of long. joint:—Plate 85% Rivet 85%  
 Diameter of tube holes in drum 1/2 in Pitch of tube holes 2 in Percentage strength of shell in way of tubes 85%  
 Drum has a flat side state method of staying Distance apart Number and pitch of stays in each Working pressure  
 fitted) Distance apart Number and pitch of stays in each Working pressure  
 Rules Distance apart Number and pitch of stays in each Working pressure  
 Steam Drum Heads or Ends:—Material Steel Thickness 1/2 in Radius or how stayed Distance apart  
 of Manhole or Handhole Distance apart Number and pitch of stays in each Working pressure  
 Material of plates Steel Thickness 1/2 in Water Drums:—Number in each boiler 1 Inside Diameter 48 in  
 of plates Steel Thickness 1/2 in Range of tensile strength 48,000 lb Are drum shell plates welded ✓  
 long. seams long. seams Diameter of Rivet Holes in 1/4 in  
 Pitch of rivets 2 in Lap of plates or width of butt straps 1/2 in Thickness of straps 1/2 in  
 Percentage strength of long. joint:—Plate 85% Rivet 85% Diameter of tube holes in drum 1/2 in Pitch of tube holes 2 in  
 Percentage strength of drum shell in way of tubes 85% Water Drum Heads or Ends:—Material Steel Thickness 1/2 in  
 Radius or how stayed Distance apart Number and pitch of stays in each Working pressure  
 Headers or Sections:—Number 1 Material of Stays Steel  
 at smallest part Distance apart Number and pitch of stays in each Working pressure  
 Tubes:—Diameter 1/2 in  
 Percentage strength of Joint 85% Diameter 1/2 in Thickness of shell plates 1/2 in Material Steel  
 Description of longitudinal joint Distance apart Number and pitch of stays in each Working pressure  
 Crown or End Plates:—Material Steel Thickness 1/2 in How stayed Distance apart  
 RHEATER. Type Distance apart Number and pitch of stays in each Working pressure  
 of Test Distance apart Number and pitch of stays in each Working pressure  
 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler ✓  
 Pressure to which each is adjusted Distance apart Number and pitch of stays in each Working pressure  
 Is easing gear fitted Distance apart Number and pitch of stays in each Working pressure  
 Number, diameter, and thickness of tubes Distance apart Number and pitch of stays in each Working pressure  
 e Gear. Tubes Distance apart Number and pitch of stays in each Working pressure  
 Gaskets or joints:—Manhole Distance apart Number and pitch of stays in each Working pressure  
 Handhole Distance apart Number and pitch of stays in each Working pressure  
 Handhole plates Distance apart Number and pitch of stays in each Working pressure

The foregoing is a correct description,

please & CO. LTD.

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been  
satisfactorily fitted on board and examined under steam. Oil fuel  
installation examined & found satisfactory.

Fee ... £ : : When applied for, 19  
 Selling Expenses (if any) £ : : When received, 19

J. G. Milton

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 22 DEC. 1931

See Machinery  
Dept.



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