

## REPORT ON WATER TUBE BOILERS.

No. 14484.

Received at London Office

Date of writing Report 21.10.1931 When handed in at Local Office 6.11.1931 Port of Southampton  
 No. in Survey held at Bomes. Date, First Survey 23.8.31 Last Survey 16.10.1931  
 Reg. Bk. on the Ship no. 518 (Number of Visits 8) Tons { Gross  
 Master Built at Brester By whom built Wm J. Brester & Co. When built  
 Engines made at By whom made When made  
 Boilers made at Bomes. By whom made J. Samuel White & Co. Ltd. When made 1931  
 Registered Horse Power Owners Port belonging to

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.**—Manufacturers of Steel Colville & Co. Glasgow.  
 (Letter for Record S) Date of Approval of plan 6.7.31 Number and Description or Type  
 of Boilers 1 water tube Working Pressure 200 lb Tested by Hydraulic Pressure to 350 lb Date of Test 16.10.31  
 No. of Certificate 5 Can each boiler be worked separately Total Heating Surface of Boilers 900 sq ft  
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 2. White (15.5) Total grate area of boilers in vessel including  
 Main and Auxiliary No. and type of burners (oil) in each boiler 2. White (15.5) No. and description of safety valves on  
 each boiler Area of each valve Pressure to which they are adjusted  
 Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter the donkey boiler  
 Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 7.0.7 Width and Length 7.10.6 x 9.2.4  
 Steam Drums:—Number in each boiler 1 Inside diameter 2.3.4 Material of plates Steel Thickness 3/8  
 Range of Tensile Strength 28/32 lb Are drum shell plates welded or flanged No Description of riveting  
 Cir. seams SR long. seams Double DBS Diameter of rivet holes in long. seams 3/32 Pitch of Rivets 2.4  
 Lap of plates or width of butt straps 6.4 Thickness of straps 1/2 Percentage strength of long. joint:—Plate 76.4 Rivet 97  
 Diameter of tube holes in drum 1.5/4 + 1.1/2 Pitch of tube holes 1.5/4 + 1.1/2 Percentage strength of shell in way of tubes 28.49 + 28.4  
 If Drum 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  
 Steam Drum Heads or Ends:—Material Steel Thickness 1/2 Radius or how stayed 1.7  
 Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler 2 Inside Diameter 1.4  
 Material of plates Steel Thickness 3/8 Range of tensile strength 26/30 lb Are drum shell plates welded  
 flanged Description of riveting:—Cir. seams SR long. seams Single DBS Diameter of Rivet Holes in  
 long. seams 3/32 Pitch of rivets 2.4 Lap of plates or width of butt straps 4.3 Thickness of straps 1/2  
 Percentage strength of long. joint:—Plate 65.3 Rivet 97 Diameter of tube holes in drum 1.5/4 + 1.1/2 Pitch of tube holes 1.5/4 + 1.1/2  
 Percentage strength of drum shell in way of tubes 32.5 + 31.9 Water Drum Heads or Ends:—Material Steel Thickness 1/2  
 Radius or how stayed 1.2 Size of manhole or handhole 13.1/2 x 11" Headers or Sections:—Number  
 Material Thickness Tested by Hydraulic Pressure to Material of Stays  
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 1.5/4 + 1.1/2  
 Thickness 10.456 + 12.456 Number 900 x 1.1/2 Steam Dome or Collector:—Description of Joint to Shell  
 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  
 Rules Crown or End Plates:—Material Thickness How stayed

**SUPERHEATER.** Type Date of Approval of Plan 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  
 Diameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted  
 Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes  
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

For J. Samuel White & Company Ltd.  
 The foregoing is a correct description,

Managing Director. Manufacturer.

Dates During progress of July 23.30. Aug 25. Sept 9.23.26. Oct 9.16. Is the approved plan of boiler forwarded herewith Yes  
 Survey work in shops --  
 while During erection on Total No. of visits 8  
 building board vessel --

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

This boiler has been constructed under Special Survey & in accordance with  
 Rule requirements & approved plans. & the workmanship is good.  
 The boiler is to be forwarded for installation in Messrs J. Brecht's Yard No 518.

Survey Fee ... £ 6-0-0 When applied for, 7th Nov. 1931  
 Travelling Expenses (if any) £ 1-9-0 When received, 24.12.1931

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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