

## REPORT ON WATER TUBE BOILERS.

No. 55309

Received at London Office 16 JAN 1935

Writing Report Dec 18 1934 When handed in at Local Office 8.1.1935 Port of Glasgow.  
 in Survey held at Glasgow-Refren. Date, First Survey 9/3/34 Last Survey 24/12/1934  
 Bk. on the Boiler no 1289. (large type) Number of Visits 29 Tons { Gross  
 Net  
 Built at Barron By whom built Pickers Armstrong Ltd. When built  
 By whom made Babcock Wilcox Ltd. When made 1934.  
 Owners  
 Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel L. Colville & Raner S. Co  
 Date of Approval of plan 2/3/34 22/3/34, 24/4/34 Number and Description or Type  
 of Certificate 4. Babcock Wilcox Type. Working Pressure 450 lb Tested by Hydraulic Pressure to  
 Date of Test  
 Can each boiler be worked separately. NOT COMPLETED Total Heating Surface of Boilers 29860 sq  
 forced draught fitted Yes Area of fire grate (coal) in each Boiler  
 Total grate area of boilers in vessel including  
 and Auxiliary No. and type of burners (oil) in each boiler  
 No. and description of safety valves on  
 boiler two high lift spring loaded Area of each valve  
 Pressure to which they are adjusted 450  
 they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler  
 least distance between boilers or uptakes and bunkers or woodwork  
 Height of Boiler  
 Width and Length  
 in Drums: not made in Glasgow District Number in each boiler 5 Material of plates bold steel Thickness 1 7/8  
 ge of Tensile Strength 28/32 Are drum shell plates welded or flanged no Description of riveting:—  
 seams no lap long, seams Sited, freng Diameter of rivet holes in long, seams  
 Pitch of Rivets  
 of plate or width of butt straps  
 Thickness of straps  
 Percentage strength of long, joint:—Plate  
 Rivet  
 meter of tube holes in drum 4 1/8 Pitch of tube holes 7 1/4 Percentage strength of shell in way of tubes 43.97  
 Drum has a flat side state method of staying  
 Depth and thickness of girders at centre  
 fitted) Distance apart  
 Number and pitch of stays in each  
 Working pressure  
 rules Steam Drum Heads or Ends:—Material Steel Thickness 1 7/16 Radius or how stayed 3' 0"  
 of Manhole or Handhole 15" x 11" MUD  
 Water Drums:—Number in each boiler 1 Inside Diameter 6' x 6' 5 9/16  
 erial of plates Steel S.D. Thickness 3/4" nominal Range of tensile strength 26/30 Ton Are drum shell plates welded  
 flanged no 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  
 Percentage strength of long, joint:—Plate  
 Rivet  
 Diameter of tube holes in drum  
 Pitch of tube holes  
 Percentage strength of drum shell in way of tubes  
 Water Drum Heads or Ends:—Material  
 Thickness  
 Radius or how stayed  
 Size of manhole or handhole  
 Headers or Sections:—Number 360. Total  
 erial Steel S.D. Thickness 7/16 nominal Tested by Hydraulic Pressure to  
 Material of Stays  
 at smallest part  
 Area supported by each stay  
 Working Pressure by Rules 450 lb Tubes:—Diameter not fitted here  
 ckness 7 9/16 Number 1355 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  
 ERHEATER. Type B.W. Interdeck Date of Approval of Plan 18/6/34. DRUMS  
 Tested by Hydraulic Pressure to 725 lb.  
 e of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler  
 meter of Safety Valve  
 Pressure to which each is adjusted 400 lb Is easing gear fitted  
 drain cock or valve fitted at lowest point of superheater  
 Number, diameter, and thickness of tubes  
 are Gear. Tubes  
 Gaskets or joints:—Manhole  
 Handhole  
 Handhole plates

The foregoing is a correct description,

Babcock & Wilcox, Ltd Manufacturer.

Dates { During progress of 1934 Mar. 9. 19. 26 Apr. 3. 19. 23 27 May Is the approved plan of boiler forwarded herewith Yes  
 Survey { work in shops --  
 while { During erection on 2. 4. 8. 14. 15 June 4. 7. 14 Aug 8. 22. 24. 29 Total No. of visits 29  
 ending { board vessel --  
Sep. 6. 18 Oct. 4. 16. 25 Nov. 1. 5. 23 Dec. 13. 24

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boiler parts have been  
uilt under Special Survey, to approved plans in accordance with the  
Society's Rules. They have been forwarded to Mr Pickers Armstrongs for  
ompletion of boiler and fitting in their no 697.  
The materials and workmanship are good.

Survey Fee NB £135-18-0 to Lbs office  
63-19-0 to Barron office  
 Travelling Expenses (if any) £

When applied for, 191  
 When received, 2/87 191

E. H. Sutherland  
 Engineer Surveyor to Lloyd's Register of Shipping  
 FRI. 9 AUG 1935  
 TUE. 13 AUG 1935

Committee's Minute GLASGOW 15 JAN 1935

Assigned TRANSMIT TO LONDON

004285-004291-0081