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# REPORT ON WATER TUBE BOILERS.

MOB 17824  
No. 18600

Received at London Office 22 NOV 1944  
Date of Writing Report 20/11/1944 When handed in at Local Office 20/11/1944 Port of *W. Hartlepool*  
No. in Survey held at *Hartlepool* Date, First Survey 24/12/43 Last Survey 15/11/1944  
Reg. Bk. on the *3/8 "WAVE GOVERNOR"* (Number of Visits 71) Tons { Gross 8196 Net 4568  
Built at *Haverton Hill* By whom built *Furness S.B. Co. (362)* When built  
Engines made at *Hartlepool* By whom made *Richardson Westgarth & Co. (2751)* When made 1944  
Boilers made at *"* By whom made *"* When made 1944  
Nominal Horse Power 1215 1226 Owners *Admiralty* Port belonging to *London*

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

Date of Approval of plan 18.6.42 Number and Description or Type of Boilers 2 Foster Wheeler "D" Type Working Pressure 480 <sup>490 lb</sup> Tested by Hydraulic Pressure to 740 <sup>750 lb</sup> Date of Test 9.9.44  
No. of Certificate 4035 Can each boiler be worked separately *Yes* Total Heating Surface of Boilers 6840 <sup>sq. ft.</sup>  
Is forced draught fitted *Yes* Area of fire grate (coal) in each Boiler 3 WallSEND Howden  
No. and type of burners (oil) in each boiler 1-2 "Single Spring" H.L. Area of each set of valve 11.1 <sup>sq. ft.</sup> No. and description of safety valves on each boiler 1-2 "Single Spring" H.L. Pressure to which they are adjusted 505 <sup>lb</sup>  
Are they fitted with easing gear *Yes* In case of donkey boilers state whether steam from main boilers can enter the donkey boiler *Yes*  
Smallest distance between boilers or uptakes and bunkers or woodwork 3'-6" Height of boiler 15'-9" <sup>Centre</sup> Width and Length 17'-5 3/4" 11'-7 1/4"  
Steam Drums:—Number in each boiler one Inside diameter 3'-6" Thickness of plates 1 5/8"  
Range of Tensile Strength 28/32 Are drum shell plates welded or flanged *welded* Description of riveting:—  
Cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets  
Lap of plate or width of butt straps Thickness of straps 4 1/2" 3 1/2" Percentage strength of long. joint:—Plate Rivet 2" = 55.5  
Diameter of tube holes in drum 2" 4 1/4" Pitch of tube holes 2 1/4" 2 3/4" 1 5/8" Percentage strength of shell in way of tubes 1 1/2" = 44.4  
Working pressure by rules as app. Steam Drum Heads or Ends:—Range of tensile strength 26/30 Thickness of plates 1 7/8" 4 1/2"  
Radius or how stayed 3'-6" Size of manhole or handhole 16" x 12" Working pressure by rules as app. Water Drums:—Number in each boiler one Inside Diameter 2'-9" Thickness of plates 1 9/32" Range of tensile strength 28/32 Are drum shell plates welded or flanged *welded* Description of riveting:—Cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps do. drum  
Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum do. steam drum Pitch of tube holes do. drum  
Percentage strength of drum shell in way of tubes do. steam drum Working pressure by rules as app. Water Drum Heads or Ends:—Range of Tensile strength 26/30 Thickness of plates 1 9/16" Radius or how stayed 2'-9"  
Size of manhole or handhole 16" x 12" Working pressure by rules as app. Headers or Sections:—Number 3 2" Tubes:—Diameter 1 1/4"  
Material *steel* Thickness 7/8" Tested by Hydraulic Pressure to 740 <sup>750 lb</sup> Thickness 7/8" Number 384 1040 Steam Dome or Collector:—Description of Joint to Shell Range of tensile strength  
Inside diameter Thickness of shell plates Diameter of rivet holes Pitch of rivets Lap of plate or width of butt straps Thickness of straps  
Working Pressure of shell by rules Crown or End Plates:—Range of tensile strength Working pressure by rules  
Thickness Radius or how stayed  
SUPERHEATER. Drums or Headers:—Number in each boiler 2 Inside Diameter 6 1/2" x 6 1/4"  
Thickness 1 1/8" Material *steel* Range of tensile strength 28/32 Are drum shell plates welded or flanged *weldless* Description of riveting:—Cir. seams long. seams Diameter of rivet holes in long. seams 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 1 1/4" Pitch of tube holes 2 3/8" 1 1/8"  
Percentage strength of drum shell in way of tubes Working pressure by rules as app. Drum Heads or Ends:—flat  
Thickness 1 1/8" Range of tensile strength 28/32 Radius or how stayed Size of manhole or handhole 2"  
Working pressure by rules as app. Number, diameter, and thickness of tubes 300-1 1/2" x 1 1/8" Tested by Hydraulic Pressure to 740 <sup>750 lb</sup>  
Date of Test 31/8/44 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 1-2 1/4" double Spring S.H.L. Area of each set of valves 7.96 <sup>sq. ft.</sup>  
Pressure to which they are adjusted 489 <sup>lb</sup> Is easing gear fitted *Yes*

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

For RICHARDSON, WESTGARTH & Co. LIMITED.

The foregoing is a correct description,

*W. E. O'Malley* Director, Manufacturer.

Dates of Survey { During progress of work in shops - 1943 Dec 24, 1944 Jan 14, 3 Feb 2, 11, 16, 29, Mar 2, 20, 24, 28, Apr 2, 6, 19, 22, 24  
while building { During erection on board vessel - 1943 May 3, 4, 11, 12, 17, 19, 23, June 7, 8, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Aug 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Sept 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Oct 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Nov 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Dec 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 1944 Jan 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Feb 1, 2, 3, 4, 5, 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Upon completion the boilers, Superheaters & port economiser were hydraulically tested to 740 lb/sq. & found sound & tight.

The star. economiser remains to be hydraulically tested & arrangements made for this to be done on board.

The boilers have been despatched to Haverton Hill for fitting on board Tameside P.B. Co Vessel 362.

The star section of the economiser hydraulically tested to 770 lb/sq. & found satisfactory ✓

These boilers have now been securely fitted on board & examined under working conditions & found satisfactory. ✓

On completion the SVs of both boilers were adjusted under steam, the SVs of the drums to 505 lb/sq. & those of the superheaters to 489 lb/sq. ✓

to be in an Start

### Drums fitted in Boilers

2 steam drums	EW 1454/5	Birmingham Certs. 2935 & 2959
1 water drum	FW 87	Manchester Cert. 2502 (Fee charged at Mch.)
1 " "	EW 1429	Birmingham Cert. 3010



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Foundation