

NEWCASTLE-ON-TYNE, No. 105097
REPORT ON WATER TUBE BOILERS. No. 71451
Received at London Office 12 FEB 1947
Port of Glasgow
Date of writing Report 8-2-1947 When handed in at Local Office 10-2-1947
Survey held at Penrith Date, First Survey 6-3-46 Last Survey 5th Feb 1947
Reg. Book 36577 on the TURBOELEC S.S. HYALINA
Built at Newcastle-on-Tyne By whom built Swan Hunter & Co. Ltd. Yard No 1753 When built
Engines made at Penrith By whom made Batech & Wilson, Ltd. Engine No. When made
Boilers made at Penrith By whom made Batech & Wilson, Ltd. Boiler No 6/1850 When made
Nominal Horse Power Owners Port belonging to

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel G. Willis & Co.
Date of Approval of plan 3/1/46, etc. of Boilers 3 B & W Marine Working Pressure 450 lb. Tested by Hydraulic Pressure to 900 lb. No. and Description or Type No 102 31-10-46
No. of Certificate Can each boiler be worked separately. Total Heating Surface of Boilers 18,618 sq. ft. SUPERHEATER H.S. 2067 sq. ft.
Is forced draught fitted. Area of Fire Grate (coal) in each Boiler No. and description of safety valves on each boiler
each boiler Area of each set of valves per boiler per rule as fitted 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 Height of boiler 20'-8"
Width and length 19'-4" x 19'-6" Steam Drums: Number in each boiler One Inside diameter 3'-6"
Thickness of plates 15/8" Range of tensile strength 28/32 tons Are drum shell plates welded or flanged welded If fusion welded, state name of welding firm Batech & Wilson, Ltd. Have all the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: Circ. seams long seams
Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint: Plate Rivet Diameter of tube holes in drum 4" Pitch of tube holes 7 1/4"
Percentage strength of shell in way of tubes 43.5 Steam Drum Heads or Ends: Range of tensile strength 28/30 tons Water Drums: Number Thickness of plates 1 1/2" Radius or how stayed 3'-0" Size of manhole or handhole 16" x 12" Are drum shell plates in each boiler None Inside diameter Thickness of plates Range of tensile strength Have all the requirements of the Rules welded or flanged If fusion welded, state name of welding firm Description of riveting: Circ. seams long seams
for Class I vessels been complied with Description of riveting: Circ. seams long seams Thickness of straps Pitch of tube holes
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 Size of manhole or handhole
Percentage strength of drum shell in way of tubes Radius or how stayed Tested by hydraulic pressure to 725 lb. MUDRUM
Headers or Sections: Number 25 Material SD. Steel Thickness 7/16" Tubes: Diameter 4" x 1 13/16" Thickness 24/49: 7+99 Number 25+52: 196+329 Steam Dome or Collector Description of joint to shell Headershipped Inside diameter 6" x 6" Thickness of shell plates 3/4" Range of tensile strength 28/32 tons Description of longitudinal joint SD. Steel If fusion welded, state name of welding firm Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes plate rivet
Pitch of rivets Thickness of straps Percentage strength of long. joint Radius or how stayed
Crown or End Plates: Range of tensile strength Thickness Radius or how stayed
SUPERHEATER, Drums or Headers: Number in each boiler One inlet One outlet Inside diameter 9 1/2"
Thickness 13/8" Material SD. Steel Range of tensile strength 28/32 tons Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: Circ. seams long seams
Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint: Plate Rivet Diameter of tube holes in drum 1 1/2" Pitch of tube holes 5 1/4" GROUPS percentage strength of drum shell in way of tubes 37.9 Drum Heads or Ends: Forged Thickness 13/8" Range of tensile strength Number, diameter, and thickness of tubes 60 @ 1 1/2" 99
Radius or how stayed Size of manhole or handhole 398" sq. 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 of valves Pressure to which they are adjusted Is easing gear fitted
Spare Gear. Has the spare gear required by the Rules been supplied. Yes

The foregoing is a correct description, Manufacturer.
Is the approved plan of boiler forwarded herewith. Yes
Dates of Survey During progress of work in shops - 18.12.46, 10.1.47, 2.2.47, 9.2.47, 15.2.47, 22.2.47, 29.2.47, 5.3.47, 12.3.47, 19.3.47, 26.3.47, 2.4.47, 9.4.47, 15.4.47, 22.4.47, 29.4.47, 6.5.47, 13.5.47, 20.5.47, 27.5.47, 3.6.47, 10.6.47, 17.6.47, 24.6.47, 1.7.47, 8.7.47, 15.7.47, 22.7.47, 29.7.47, 5.8.47, 12.8.47, 19.8.47, 26.8.47, 2.9.47, 9.9.47, 16.9.47, 23.9.47, 30.9.47, 7.10.47, 14.10.47, 21.10.47, 28.10.47, 4.11.47, 11.11.47, 18.11.47, 25.11.47, 2.12.47, 9.12.47, 16.12.47, 23.12.47, 30.12.47, 6.1.48, 13.1.48, 20.1.48, 27.1.48, 3.2.48, 10.2.48, 17.2.48, 24.2.48, 3.3.48, 10.3.48, 17.3.48, 24.3.48, 31.3.48, 7.4.48, 14.4.48, 21.4.48, 28.4.48, 5.5.48, 12.5.48, 19.5.48, 26.5.48, 2.6.48, 9.6.48, 16.6.48, 23.6.48, 30.6.48, 7.7.48, 14.7.48, 21.7.48, 28.7.48, 4.8.48, 11.8.48, 18.8.48, 25.8.48, 1.9.48, 8.9.48, 15.9.48, 22.9.48, 29.9.48, 6.10.48, 13.10.48, 20.10.48, 27.10.48, 3.11.48, 10.11.48, 17.11.48, 24.11.48, 1.12.48, 8.12.48, 15.12.48, 22.12.48, 29.12.48, 5.1.49, 12.1.49, 19.1.49, 26.1.49, 2.2.49, 9.2.49, 16.2.49, 23.2.49, 30.2.49, 6.3.49, 13.3.49, 20.3.49, 27.3.49, 3.4.49, 10.4.49, 17.4.49, 24.4.49, 1.5.49, 8.5.49, 15.5.49, 22.5.49, 29.5.49, 5.6.49, 12.6.49, 19.6.49, 26.6.49, 3.7.49, 10.7.49, 17.7.49, 24.7.49, 31.7.49, 7.8.49, 14.8.49, 21.8.49, 28.8.49, 4.9.49, 11.9.49, 18.9.49, 25.9.49, 2.10.49, 9.10.49, 16.10.49, 23.10.49, 30.10.49, 6.11.49, 13.11.49, 20.11.49, 27.11.49, 4.12.49, 11.12.49, 18.12.49, 25.12.49, 1.1.50, 8.1.50, 15.1.50, 22.1.50, 29.1.50, 5.2.50, 12.2.50, 19.2.50, 26.2.50, 5.3.50, 12.3.50, 19.3.50, 26.3.50, 2.4.50, 9.4.50, 16.4.50, 23.4.50, 30.4.50, 7.5.50, 14.5.50, 21.5.50, 28.5.50, 4.6.50, 11.6.50, 18.6.50, 25.6.50, 2.7.50, 9.7.50, 16.7.50, 23.7.50, 30.7.50, 6.8.50, 13.8.50, 20.8.50, 27.8.50, 3.9.50, 10.9.50, 17.9.50, 24.9.50, 1.10.50, 8.10.50, 15.10.50, 22.10.50, 29.10.50, 5.11.50, 12.11.50, 19.11.50, 26.11.50, 3.12.50, 10.12.50, 17.12.50, 24.12.50, 31.12.50, 7.1.51, 14.1.51, 21.1.51, 28.1.51, 4.2.51, 11.2.51, 18.2.51, 25.2.51, 3.3.51, 10.3.51, 17.3.51, 24.3.51, 31.3.51, 7.4.51, 14.4.51, 21.4.51, 28.4.51, 4.5.51, 11.5.51, 18.5.51, 25.5.51, 2.6.51, 9.6.51, 16.6.51, 23.6.51, 30.6.51, 7.7.51, 14.7.51, 21.7.51, 28.7.51, 4.8.51, 11.8.51, 18.8.51, 25.8.51, 2.9.51, 9.9.51, 16.9.51, 23.9.51, 30.9.51, 7.10.51, 14.10.51, 21.10.51, 28.10.51, 4.11.51, 11.11.51, 18.11.51, 25.11.51, 2.12.51, 9.12.51, 16.12.51, 23.12.51, 30.12.51, 6.1.52, 13.1.52, 20.1.52, 27.1.52, 3.2.52, 10.2.52, 17.2.52, 24.2.52, 31.2.52, 7.3.52, 14.3.52, 21.3.52, 28.3.52, 4.4.52, 11.4.52, 18.4.52, 25.4.52, 2.5.52, 9.5.52, 16.5.52, 23.5.52, 30.5.52, 6.6.52, 13.6.52, 20.6.52, 27.6.52, 3.7.52, 10.7.52, 17.7.52, 24.7.52, 31.7.52, 7.8.52, 14.8.52, 21.8.52, 28.8.52, 4.9.52, 11.9.52, 18.9.52, 25.9.52, 2.10.52, 9.10.52, 16.10.52, 23.10.52, 30.10.52, 6.11.52, 13.11.52, 20.11.52, 27.11.52, 3.12.52, 10.12.52, 17.12.52, 24.12.52, 31.12.52, 7.1.53, 14.1.53, 21.1.53, 28.1.53, 4.2.53, 11.2.53, 18.2.53, 25.2.53, 3.3.53, 10.3.53, 17.3.53, 24.3.53, 31.3.53, 7.4.53, 14.4.53, 21.4.53, 28.4.53, 4.5.53, 11.5.53, 18.5.53, 25.5.53, 2.6.53, 9.6.53, 16.6.53, 23.6.53, 30.6.53, 7.7.53, 14.7.53, 21.7.53, 28.7.53, 4.8.53, 11.8.53, 18.8.53, 25.8.53, 2.9.53, 9.9.53, 16.9.53, 23.9.53, 30.9.53, 6.10.53, 13.10.53, 20.10.53, 27.10.53, 3.11.53, 10.11.53, 17.11.53, 24.11.53, 1.12.53, 8.12.53, 15.12.53, 22.12.53, 29.12.53, 5.1.54, 12.1.54, 19.1.54, 26.1.54, 2.2.54, 9.2.54, 16.2.54, 23.2.54, 30.2.54, 6.3.54, 13.3.54, 20.3.54, 27.3.54, 3.4.54, 10.4.54, 17.4.54, 24.4.54, 31.4.54, 7.5.54, 14.5.54, 21.5.54, 28.5.54, 4.6.54, 11.6.54, 18.6.54, 25.6.54, 2.7.54, 9.7.54, 16.7.54, 23.7.54, 30.7.54, 6.8.54, 13.8.54, 20.8.54, 27.8.54, 3.9.54, 10.9.54, 17.9.54, 24.9.54, 31.9.54, 7.10.54, 14.10.54, 21.10.54, 28.10.54, 4.11.54, 11.11.54, 18.11.54, 25.11.54, 2.12.54, 9.12.54, 16.12.54, 23.12.54, 30.12.54, 6.1.55, 13.1.55, 20.1.55, 27.1.55, 3.2.55, 10.2.55, 17.2.55, 24.2.55, 31.2.55, 7.3.55, 14.3.55, 21.3.55, 28.3.55, 4.4.55, 11.4.55, 18.4.55, 25.4.55, 2.5.55, 9.5.55, 16.5.55, 23.5.55, 30.5.55, 6.6.55, 13.6.55, 20.6.55, 27.6.55, 3.7.55, 10.7.55, 17.7.55, 24.7.55, 31.7.55, 7.8.55, 14.8.55, 21.8.55, 28.8.55, 4.9.55, 11.9.55, 18.9.55, 25.9.55, 2.10.55, 9.10.55, 16.10.55, 23.10.55, 30.10.55, 6.11.55, 13.11.55, 20.11.55, 27.11.55, 3.12.55, 10.12.55, 17.12.55, 24.12.55, 31.12.55, 7.1.56, 14.1.56, 21.1.56, 28.1.56, 4.2.56, 11.2.56, 18.2.56, 25.2.56, 3.3.56, 10.3.56, 17.3.56, 24.3.56, 31.3.56, 7.4.56, 14.4.56, 21.4.56, 28.4.56, 4.5.56, 11.5.56, 18.5.56, 25.5.56, 2.6.56, 9.6.56, 16.6.56, 23.6.56, 30.6.56, 7.7.56, 14.7.56, 21.7.56, 28.7.56, 4.8.56, 11.8.56, 18.8.56, 25.8.56, 2.9.56, 9.9.56, 16.9.56, 23.9.56, 30.9.56, 6.10.56, 13.10.56, 20.10.56, 27.10.56, 3.11.56, 10.11.56, 17.11.56, 24.11.56, 1.12.56, 8.12.56, 15.12.56, 22.12.56, 29.12.56, 5.1.57, 12.1.57, 19.1.57, 26.1.57, 2.2.57, 9.2.57, 16.2.57, 23.2.57, 30.2.57, 6.3.57, 13.3.57, 20.3.57, 27.3.57, 3.4.57, 10.4.57, 17.4.57, 24.4.57, 31.4.57, 7.5.57, 14.5.57, 21.5.57, 28.5.57, 4.6.57, 11.6.57, 18.6.57, 25.6.57, 2.7.57, 9.7.57, 16.7.57, 23.7.57, 30.7.57, 6.8.57, 13.8.57, 20.8.57, 27.8.57, 3.9.57, 10.9.57, 17.9.57, 24.9.57, 31.9.57, 7.10.57, 14.10.57, 21.10.57, 28.10.57, 4.11.57, 11.11.57, 18.11.57, 25.11.57, 2.12.57, 9.12.57, 16.12.57, 23.12.57, 30.12.57, 6.1.58, 13.1.58, 20.1.58, 27.1.58, 3.2.58, 10.2.58, 17.2.58, 24.2.58, 31.2.58, 7.3.58, 14.3.58, 21.3.58, 28.3.58, 4.4.58, 11.4.58, 18.4.58, 25.4.58, 2.5.58, 9.5.58, 16.5.58, 23.5.58, 30.5.58, 6.6.58, 13.6.58, 20.6.58, 27.6.58, 3.7.58, 10.7.58, 17.7.58, 24.7.58, 31.7.58, 7.8.58, 14.8.58, 21.8.58, 28.8.58, 4.9.58, 11.9.58, 18.9.58, 25.9.58, 2.10.58, 9.10.58, 16.10.58, 23.10.58, 30.10.58, 6.11.58, 13.11.58, 20.11.58, 27.11.58, 3.12.58, 10.12.58, 17.12.58, 24.12.58, 31.12.58, 7.1.59, 14.1.59, 21.1.59, 28.1.59, 4.2.59, 11.2.59, 18.2.59, 25.2.59, 3.3.59, 10.3.59, 17.3.59, 24.3.59, 31.3.59, 7.4.59, 14.4.59, 21.4.59, 28.4.59, 4.5.59, 11.5.59, 18.5.59, 25.5.59, 2.6.59, 9.6.59, 16.6.59, 23.6.59, 30.6.59, 7.7.59, 14.7.59, 21.7.59, 28.7.59, 4.8.59, 11.8.59, 18.8.59, 25.8.59, 2.9.59, 9.9.59, 16.9.59, 23.9.59, 30.9.59, 6.10.59, 13.10.59, 20.10.59, 27.10.59, 3.11.59, 10.11.59, 17.11.59, 24.11.59, 1.12.59, 8.12.59, 15.12.59, 22.12.59, 29.12.59, 5.1.60, 12.1.60, 19.1.60, 26.1.60, 2.2.60, 9.2.60, 16.2.60, 23.2.60, 30.2.60, 6.3.60, 13.3.60, 20.3.60, 27.3.60, 3.4.60, 10.4.60, 17.4.60, 24.4.60, 31.4.60, 7.5.60, 14.5.60, 21.5.60, 28.5.60, 4.6.60, 11.6.60, 18.6.60, 25.6.60, 2.7.60, 9.7.60, 16.7.60, 23.7.60, 30.7.60, 6.8.60, 13.8.60, 20.8.60, 27.8.60, 3.9.60, 10.9.60, 17.9.60, 24.9.60, 31.9.60, 7.10.60, 14.10.60, 21.10.60, 28.10.60, 4.11.60, 11.11.60, 18.11.60, 25.11.60, 2.12.60, 9.12.60, 16.12.60, 23.12.60, 30.12.60, 6.1.61, 13.1.61, 20.1.61, 27.1.61, 3.2.61, 10.2.61, 17.2.61, 24.2.61, 31.2.61, 7.3.61, 14.3.61, 21.3.61, 28.3.61, 4.4.61, 11.4.61, 18.4.61, 25.4.61, 2.5.61, 9.5.61, 16.5.61, 23.5.61, 30.5.61, 6.6.61, 13.6.61, 20.6.61, 27.6.61, 3.7.61, 10.7.61, 17.7.61, 24.7.61, 31.7.61, 7.8.61, 14.8.61, 21.8.61, 28.8.61, 4.9.61, 11.9.61, 18.9.61, 25.9.61, 2.10.61, 9.10.61, 16.10.61, 23.10.61, 30.10.61, 6.11.61, 13.11.61, 20.11.61, 27.11.61, 3.12.61, 10.12.61, 17.12.61, 24.12.61, 31.12.61, 7.1.62, 14.1.62, 21.1.62, 28.1.62, 4.2.62, 11.2.62, 18.2.62, 25.2.62, 3.3.62, 10.3.62, 17.3.62, 24.3.62, 31.3.62, 7.4.62, 14.4.62, 21.4.62, 28.4.62, 4.5.62, 11.5.62, 18.5.62, 25.5.62, 2.6.62, 9.6.62, 16.6.62, 23.6.62, 30.6.62, 7.7.62, 14.7.62, 21.7.62, 28.7.62, 4.8.62, 11.8.62, 18.8.62, 25.8.62, 2.9.62, 9.9.62, 16.9.62, 23.9.62, 30.9.62, 6.10.62, 13.10.62, 20.10.62, 27.10.62, 3.11.62, 10.11.62, 17.11.62, 24.11.62, 1.12.62, 8.12.62, 15.12.62, 22.12.62, 29.12.62, 5.1.63, 12.1.63, 19.1.63, 26.1.63, 2.2.63, 9.2.63, 16.2.63, 23.2.63, 30.2.63, 6.3.63, 13.3.63, 20.3.63, 27.3.63, 3.4.63, 10.4.63, 17.4.63, 24.4.63, 31.4.63, 7.5.63, 14.5.63, 21.5.63, 28.5.63, 4.6.63, 11.6.63, 18.6.63, 25.6.63, 2.7.63, 9.7.63, 16.7.63, 23.7.63, 30.7.63, 6.8.63, 13.8.63, 20.8.63, 27.8.63, 3.9.63, 10.9.63, 17.9.63, 24.9.63, 31.9.63, 7.10.63, 14.10.63, 21.10.63, 28.10.63, 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15.12.65, 22.12.65, 29.12.65, 5.1.66, 12.1.66, 19.1.66, 26.1.66, 2.2.66, 9.2.66, 16.2.66, 23.2.66, 30.2.66, 6.3.66, 13.3.66, 20.3.66, 27.3.66, 3.4.66, 10.4.66, 17.4.66, 24.4.66, 31.4.66, 7.5.66, 14.5.66, 21.5.66, 28.5.66, 4.6.66, 11.6.66, 18.6.66, 25.6.66, 2.7.66, 9.7.66, 16.7.66, 23.7.66, 30.7.66, 6.8.66, 13.8.66, 20.8.66, 27.8.66, 3.9.66, 10.9.66, 17.9.66, 24.9.66, 31.9.66, 7.10.66, 14.10.66, 21.10.66, 28.10.66, 4.11.66, 11.11.66, 18.11.66, 25.11.66, 2.12.66, 9.12.66, 16.12.66, 23.12.66, 30.12.66, 6.1.67, 13.1.67, 20.1.67, 27.1.67, 3.2.67, 10.2.67, 17.2.67, 24.2.67, 31.2.67, 7.3.67, 14.3.67, 21.3.67, 28.3.67, 4.4.67, 11.4.67, 18.4.67, 25.4.67, 2.5.67, 9.5.67, 16.5.67, 23.5.67, 30.5.67, 6.6.67, 13.6.67, 20.6.67, 27.6.67, 3.7.67, 10.7.67, 17.7.67, 24.7.67, 31.7.67, 7.8.67, 14.8.67, 21.8.67, 28.8.67, 4.9.67, 11.9.67, 18.9.67, 25.9.67, 2.10.67, 9.10.67, 16.10.67, 23.10.67, 30.10.67, 6.11.67, 13.11.67, 20.11.67, 27.11.67, 3.12.67, 10.12.67, 17.12.67, 24.12.67, 31.12.67, 7.1.68, 14.1.68, 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