

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 41284

Received at London Office
 Date of writing Report Aug 8th 1921 When handed in at Local Office Aug 8th 1921 Port of GLASGOW
 No. in Survey held at Renfrew Date, First Survey 8. 9. 1919 Last Survey 16. 8. 1920
 Reg. Bk. on the Three Babcock & Wilcox Boilers Number of Visits 7 Tons { Gross
 Net
 Master Built at By whom built When built
 Engines made at By whom made When made
 Boilers made at Renfrew By whom made Babcock & Wilcox Ltd (1001.) When made
 Registered Horse Power Owners Australian Commonwealth Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel D. Colville & Sons
 (Letter for Record) Date of Approval of plan Number and Description or Type
 of Boilers 3 Babcock & Wilcox Working Pressure 200 lbs. Tested by Hydraulic Pressure to Date of Test
 No. of Certificate Can each boiler be worked separately. Total Heating Surface of Boilers 8289 sq ft
 Is forced draught fitted Area of fire grate (coal) in each Boiler 84.5 sq ft Total grate area of boilers in vessel including
 Main and Auxiliary No. and type of burners (oil) in each boiler 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 Width and Length
 Steam Drums:—Number in each boiler One Inside diameter 4'-0" Material of plates Steel Thickness 14" 32" 1"
 Range of Tensile Strength 28-32 Are drum shell plates welded or flanged No. Description of riveting:—
 Cir. seams DR Lap long. seams TR SBS Diameter of rivet holes in long. seams 3/32" Pitch of Rivets 3 3/4"
 Lap of plate or width of butt straps 4" Thickness of straps 7/16" Percentage strength of long. joint:—Plate 45.8 Rivet 45.5
 Diameter of tube holes in drum 3 3/32" Pitch of tube holes 4" x 5 1/4" Percentage strength of shell in way of tubes 43.3
 If Drum has a flat side state method of staying Depth and thickness of girders at centre
 (if fitted) Distance apart Number and pitch of stays in each Working pressure
 by rules 210. Steam Drum Heads or Ends:—Material Steel Thickness 1 1/2" Radius of how stayed 42"
 Size of Manhole or Handhole MUD Water Drums:—Number in each boiler One Outside Diameter 4 1/2 sq.
 Material of plates S Thickness 3/4" Range of tensile strength 26-30 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
 Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 3.94 Pitch of tube holes 4"
 Percentage strength of drum shell in way of tubes MUD Water Drum Heads or Ends:—Material Steel Thickness 3/4"
 Radius or how stayed Size of manhole or handhole 4 1/6 sq. Headers or Sections:—Number 19
 Material Steel Thickness 14" 32" Tested by Hydraulic Pressure to 400 lbs Material of Stays
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 1 1/16" 3 1/16"
 Thickness 125, 144, 212, 192. Number 590 & 39. Steam Dome or Collector:—Description of Joint to Shell None
 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
 by Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type None 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

Survey request form

No. 2293 attached to npr no. 39894

The foregoing is a correct description,

Babcock & Wilcox Manufacturer.

Dates of Survey { During progress of work in shops - 1919 Sep 8. 30. Nov 13. 1920 Jan 21. Feb 3 Apr 15. Aug 16. Is the approved plan of boiler forwarded herewith
 while building { During erection on board vessel - - - - - Total No. of visits 7

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship and materials are of good quality. The workmanship has been carried out under Special Survey in accordance with the approved plans. Headers and mud drums have been tested as above. Ends dished and shell plates rolled but not drilled. The boilers are intended for Australian Commonwealth Standard vessels and the boiler parts have been despatched to Sydney where the boilers will be completed.

Survey Fee ... £ 8 : 8 : When applied for. 191
 Travelling Expenses (if any) £ : : When received. 191

MONTHLY ACCOUNT

David C Barr.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW. 16 AUG 1921
 Assigned TRANSMIT TO LONDON

FRI. JUL 28 1922

Lloyd's Register Foundation

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