

REPORT ON WATER TUBE BOILERS.

No. 41284

copy

Date of writing Report June 4 1922 When handed in at Local Office Adelaide S.A. June 4 1922: Port of Glasgow.
 Received at London Office

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 S.S. "EUWARRA" Number of Visits 7
 Master Port Adelaide Built at Port Adelaide By whom built POOLE & STEEL When built 6. 22.
 Engines made at Port Adelaide By whom made POOLE & STEEL When made 6. 22.
 Boilers made at Renfrew By whom made Babcock & Wilcox Ltd (1001) When made
 Registered Horse Power 576. 516 Owners Australian Commonwealth Port belonging to Newcastle N.S.W.

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 40 Total Heating Surface of Boilers 8289 sq ft
 Is forced draught fitted Assisted Area of fire grate (coal) in each Boiler 84.5 sq ft Total grate area of boilers in vessel including Main and Auxiliary 3 Main = 253.5 sq ft No. and type of burners (oil) in each boiler Coal burning No. and description of safety valves on each boiler Three double spring loaded Area of each valve 9.62 inches Pressure to which they are adjusted 185 lbs
 Are they fitted with easing gear Yes 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 24" Height of Boiler _____ Width and Length _____
 Steam Drums:—Number in each boiler one Inside diameter 4'-0" Material of plates Steel Thickness 3/32" & 1/2"
 Range of Tensile Strength 28-32 Are drum shell plates welded or flanged No Description of riveting:—
 Cir. seams DR. Lap long. seams DR. S.B.S. Diameter of rivet holes in long. seams 24/32" Pitch of Rivets 3 3/4"
 Lap of plate or width of butt straps 7" Thickness of straps 7/16" Percentage strength of long. joint:—Plate 75.8 Rivet 75.5
 Diameter of tube holes in drum 3 3/32" Pitch of tube holes 7" x 5 3/4" 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 3/16" Radius 42"
 Size of Manhole or Handhole _____
 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 3.97 Pitch of tube holes 7"
 Percentage strength of drum shell in way of tubes _____
 Radius or how stayed _____
 Material steel Thickness 7/32" Size of manhole or handhole 4 1/2 sq ft Headers or Sections:—Number 19
 Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules _____ Tubes:—Diameter 1 1/8", 3 1/8"
 Thickness 128, 144, 212, 192 Number 590 & 59 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 Total 42 Gaskets or joints:—Manhole 26 Handhole 2000 Handhole plates 16
 Survey Request Form No. 2293 attached Report No. 39894.
 The foregoing is a correct description,
 (Sgd) Babcock & Wilcox Ltd. Manufacturer.

Dates of Survey: During progress of work in shops - 1919 Sep. 8, 30, Nov. 13, 1920 Jan. 21, Feb. 3, Apr. 15. 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 & materials are of good quality. The workmanship has been carried out under special survey in accordance with the approved plans. Headers & mud drums have been tested as above. Ends dished & shell plates rolled but not drilled. The boilers are intended for Australian Commonwealth Standard vessels & the boiler parts have been despatched to Sydney where the boilers will be completed.

Survey Fee ... £ : : When applied for, 1922
 Travelling Expenses (if any) £ : : When received, 191
 (Sgd) David B. Barr.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned _____
 FRI JUL 28 1922
 Lloyd's Register Foundation
 002222-002223-0236