

REPORT ON WATER TUBE BOILERS.

No. 4180

Received at London Office

Date of writing Report 1. 4. 1921 When handed in at Local Office 20. 6. 1921 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 16th August Last Survey 3rd Decr. 1920
 Reg. Bk. on the Three Babcock Wilcox water tube Boilers for S.S. No. 17 Number of Visits 6 Tons Gross 1920
 Master Bilbas Built at Silbas By whom built Sociedad Espanola de Construcion Naval When built
 Engines made at Renfrew By whom made Babcock Wilcox Ltd 1124 When made 1920
 Boilers made at Renfrew By whom made Babcock Wilcox Ltd 1124 When made 1920
 Registered Horse Power 1920 Owners Colville Bros. Ltd Port belonging to Colville Bros. Ltd

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Colville Bros. Ltd
 Letter for Record S Date of Approval of plan 3/2/20 Number and Description or Type
 of Boilers 3 Babcock Wilcox water tube Working Pressure 180 lb Tested by Hydraulic Pressure to 290 lb Date of Test
 No. of Certificate Can each boiler be worked separately. Total Heating Surface of Boilers 9636 sq. ft.
 Is forced draught fitted. Area of fire grate (coal) in each Boiler 92.9 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 S Thickness 9/16 & 1/16"
 Range of Tensile Strength 28-32 Are drum shell plates welded or flanged no Description of riveting:—
 Cir. seams double long. seams 27.75 S.B.S. Diameter of rivet holes in long. seams 29/32" Pitch of Rivets 3.537"
 Lap of plate or width of butt straps 7 1/2" Thickness of straps 7/16" Percentage strength of long. joint:—Plate 74.4 Rivet 76.7
 Diameter of tube holes in drum 3 3/32" Pitch of tube holes 7x6" Percentage strength of shell in way of tubes 82
 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 Steam Drum Heads or Ends:—Material S Thickness 13/16" Radius as how stayed 3'-6"
 Size of Manhole or Handhole in shell 11x15 Water Drums:—Number in each boiler one Inside Diameter 7 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 Pitch of tube holes
 Percentage strength of drum shell in way of tubes 43.4 Water Drum Heads or Ends:—Material S Thickness 3/4"
 Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 22 in each
 Material S Thickness 7/32" Tested by Hydraulic Pressure to 540 lb Material of Stays as how stayed
 Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 9 1/16" + 1 1/16"
 Thickness 2 1/2 ; 1 1/2 ; 1 1/4 ; 1 1/8 Number 66 - 3 1/8" 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
 by Rules Crown or End Plates:—Material Thickness How stayed
SUPERHEATER. Type 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

The foregoing is a correct description,
Babcock & Wilcox Limited. Manufacturer.

Dates of Survey During progress of 1920 Aug 16. Nov 8-11. 24. 29 Dec 3. Is the approved plan of boiler forwarded herewith Yes.
work in shops - - - 6
while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been shipped in
achieved to Bilbas. The workmanship and materials are of good quality. Headers, mud
drums, steam drums tested. The boilers built in accordance with approved plans.
To be completed and tested after erection at Bilbas.

Survey Fee ... £ 444. 12 : : When applied for. 191
 Travelling Expenses (if any) £ : : When received. 191

Committee's Minute GLASGOW 21 JUN 1921
 Assigned TRANSMIT TO LONDON

C. Marshall.
 Engineer Surveyor to Lloyd's Register of Shipping.
 TUE. 23 JAN. 1923
 TUE. APR. 24 1923
 Lloyd's Register
 002659-002666-0276