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Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 41180

Received at London Office

THE 13 APR. 1922

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 December 1920

Reg. Bk. on the Three Babcock & Wilcox Water Tube Boilers Number of Visits 6 Tons 17 } Gross
Net

Master Built at Bilbao By whom built Sociedad Espanola de Construcción Naval When built

Engines made at By whom made When made

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd 1124 When made 1920

Registered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Boloville & Sons 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 lbs Tested by Hydraulic Pressure to Date of Test

No. of Certificate Can each boiler be worked separately (92.94) Total Heating Surface of Boilers 9636 sq. ft.

Is forced draught fitted Area of fire grate (coal) in each Boiler 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 2 riv. 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 7" x 6" 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 or how stayed 3'-6"

Size of Manhole or Handhole none in shell 11 x 15 Water Drums:—Number in each boiler one outside 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 3 15/16 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 17/32 Tested by Hydraulic Pressure to 540 lbs Material of Stays ✓

Area at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules ✓ Tubes:—Diameter 3 15/16 & 1 13/16

Thickness: 2 1/2 : 1 9/16 : 1 1/4 : 1 1/8 Number 66 - 3 15/16 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,
(Signed) Babcock & Wilcox Ltd Manufacturer.

Dates of Survey } During progress of work in shops -- } 1920 Aug. 16, Nov. 8, 11, 24, 29. Dec. 3. Is the approved plan of boiler forwarded herewith yes

while building } During erection on board vessel -- } Total No. of visits 6

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been shipped in sections to Bilbao. The workmanship & 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 Bilbao.

Survey Fee ... £ : : } When applied for, 191

Travelling Expenses (if any) £ : : } When received, 191

(Sgd) C. Martell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 23 JAN. 1923

Assigned

TUE. APR. 24 1923

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