

## REPORT ON WATER TUBE BOILERS.

No. 55214

Date of writing Report 1/12/1934

1934

When handed in at Local Office

8.12.1934

Received at London Office

12 DEC 1934

Port of Glasgow.

No. in  
Reg. Bk.

Survey held at

Renfrew.

Date, First Survey

3.8.34

Last Survey

6-12-1934

1934

on the *Borlin* no 6/1292.

Number of Visits 16

Gross  
Tons  
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

When made

1934

Registered Horse Power

Owners

Port belonging to

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.

(Letter for Record (S) ✓)

Date of Approval of plan

8/8/34

Manufacturers of Steel

Steel Co. of Scotland Ltd.

of Boilers 2 Babcock Wilcox W.T. Type.

Working Pressure

180 lb

Tested by Hydraulic Pressure to

320 lb

Number and Description or Type

Date of Test 12-10-34

SPL. CERT. ISSUED.

Is forced draught fitted

Can each boiler be worked separately.

Total Heating Surface of Boilers

6520 sq ft

Main and Auxiliary

No. and type of burners (oil) in each boiler

3- TYPE NOT STATED

Total grate area of boilers in vessel including

Are they fitted with easing gear

Area of each valve

Pressure to which they are adjusted

Smallest distance between boilers or uptakes and bunkers or woodwork

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

Height of Boiler

NOT COMPLETED HERE.

Width and Length

Steam Drums:—Number in each boiler

Inside diameter

3'-6"

Material of plates

Steel

Thickness

1 1/16" &amp; 1/2"

Range of Tensile Strength

28/32 Tons

Are drum shell plates welded or flanged

no

Description of riveting:—

Cir. seams

D.R.

long. seams

DR-D.B.S.

Diameter of rivet holes in long. seams

27/32"

Pitch of Rivets

3 1/4"

Lap of plate or width of butt straps

1 @ 9 1/16"

Thickness of straps

1/2"

Percentage strength of long. joint:—Plate

73.87

Rivet

102

Diameter of tube holes in drum

4 3/16"

Pitch of tube holes

7"

Percentage strength of shell in way of tubes

88

If Drum has a flat side state method of staying

Distance apart

Depth and thickness of girders at centre

(if fitted)

✓

✓

Number and pitch of stays in each

Working pressure

by rules

✓

✓

Thickness

3/4"

Radius or how stayed

3'-0"

Size of Manhole or Handhole

16" x 12"

Material

Steel

Water Drums:—Number in each boiler

1

Inside Diameter

6" x 6" sq.

Material of plates

Steel S.D.

Thickness

3/4"

Range of tensile strength

26/30 Tons

Are drum shell plates welded

or flanged

✓

✓

long. seams

✓

Diameter of Rivet Holes in

long. seams

✓

✓

Pitch of rivets

✓

Thickness of straps

Percentage strength of long. joint:—Plate

✓

✓

Diameter of tube holes in drum

✓

Pitch of tube holes

Percentage strength of drum shell in way of tubes

✓

✓

Radius or how stayed

✓

Thickness

Material

Steel S.D.

Thickness

1 1/32"

Size of manhole or handhole

✓

Tested by Hydraulic Pressure to

Area at smallest part

✓

✓

Working Pressure by Rules

180 lb

Tubes:—Diameter

Thickness

6.9. 9.9. 10.6. - 1/4"

Number

1256 @ 1 1/16"

Steam Dome or Collector:—Description of Joint to Shell

✓

Material

Percentage strength of Joint

✓

✓

Thickness of shell plates

✓

Working Pressure of shell

Description of longitudinal joint

✓

✓

Diameter of Rivet Holes

✓

Pitch of Rivets

by Rules

✓

✓

How stayed

✓

Material

Crown or End Plates:—Material

✓

✓

Thickness

✓

Working Pressure of shell

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

✓

Is easing gear fitted

Diameter of Safety Valve

✓

✓

Pressure to which each is adjusted

✓

Number, diameter, and thickness of tubes

Is a drain cock or valve fitted at lowest point of superheater

✓

✓

Gaskets or joints:—Manhole

✓

Handhole

Spare Gear. Tubes

✓

✓

Handhole plates

✓

Handhole plates

The foregoing is a correct description,

Babcock &amp; Wilcox, Ltd.

Robert Palmer.

Manufacturer.

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

18/12/34

8/12/34

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith

yfs.

Total No. of visits

16

1934 Aug: 3.8.23 Sep: 4.28 Oct: 1.2

Is the approved plan of boiler forwarded herewith