

# REPORT ON WATER TUBE BOILERS.

No. 2662

Received at London Office

JUL 21 1937

of writing Report

19 7 1937

When handed in at Local Office

20 7 1937

Port of

Barrum

To. in  
g. Bk.

Survey held at

Barrum

Date, First Survey

20 4 36

Last Survey

12 7 1937

on the

Imm Se

ORCADES.

Number of Visits

49

Tons

Gross 23456

Net 14040

Built at

Barrum

By whom built

Vickers Armstrongs Ltd

When built

1937

ines made at

Barrum

By whom made

do.

When made

1937

lers made at

do.

By whom made

do.

When made

1937

Horse Power

4910

Owners

Orient Steam Navigation Co Ltd

Port belonging to

Lندن

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

ter for Record

S.

Date of Approval of plan

11 7 36

17 4 36

18 3 36

24 4 36

Number and Description or Type

Boilers

4 Babcock & Wilcox

type (large)

Working Pressure

450 lb

Tested by Hydraulic Pressure to

725 lb

Date of Test

14 5 37

of Certificate

466

Can each boiler be worked separately

yes.

Total Heating Surface of Boilers

29660 sq ft

forced draught fitted

yes

Area of fire grate (coal) in each Boiler

Total grate area of boilers in vessel including

n and Auxiliary

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

6 Burners Type

No. and description of safety valves on

boiler

4 L. DOUGLAS SPRING

Area of each valve

22 7.06 sq in

Pressure to which they are adjusted

450 lb

they fitted with easing gear

yes

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

ildest distance between boilers or uptakes and bunkers or woodwork

5-6"

Height of Boiler

20-6"

Width and Length

22-3" x 18-0"

im Drums:—Number in each boiler

8

Inside diameter

3-6"

Material of plates

STEEL

Thickness

1 1/2"

age of

26 3/4 years

Age of

26 3/4 years

Age of

26 3/4 years

Age of

26 3/4 years

Age of

26 3/4 years

seams

Long Double long. seams

Diagrams

Diagrams

Diagrams

Diagrams

Diagrams

Diagrams

Diagrams

Diagrams

of plate or width of butt straps

5-16"

Thickness of straps

3/16"

Percentage strength of long joints

Plate

Rivet

Plate

Rivet

Plate

meter of tube holes in drum

4 1/2"

Pitch of tube holes

7 1/2"

Percentage strength of shell in way of tubes

40%

Percentage strength of shell in way of tubes

40%

Percentage strength of shell in way of tubes

40%

Drum has a flat side state method of staying

Depth and thickness of girders at centre

fitted)

yes

Distance apart

12"

Number and pitch of stays in each

12

Working pressure

450 lb

Working pressure

450 lb

ules

Steam Drum Heads or Ends:—Material

STEEL

Thickness

1 1/2"

Radius or how stayed

3-0"

Radius or how stayed

3-0"

Radius or how stayed

3-0"

of Manhole or Handhole

15" x 11"

Thickness

1 1/2"

Range of tensile strength

40%

Are drum shell plates welded

yes

Are drum shell plates welded

yes

yes

erial of plates

See also

See also

See also

See also

See also

See also

See also

See also

See also

See also

eam

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

12 7 36

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

8" A 604

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

7" A 567

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

entage strength of long joint:—Plate

40%

entage strength of long joint:—Plate

40%

entage strength of long joint:—Plate

40%

entage strength of long joint:—Plate

40%

entage strength of long joint:—Plate

40%

entage strength of long joint:—Plate

entage strength of drum shell in way of tubes

40%

entage strength of drum shell in way of tubes

40%

entage strength of drum shell in way of tubes

40%

entage strength of drum shell in way of tubes

40%

entage strength of drum shell in way of tubes

40%

entage strength of drum shell in way of tubes

us or how stayed

yes

us or how stayed

yes

us or how stayed

yes

us or how stayed

yes

us or how stayed

yes

us or how stayed

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

TEST NO.

at smallest part

1 1/2"

at smallest part

1 1/2"

at smallest part

1 1/2"

at smallest part

1 1/2"

at smallest part

1 1/2"

at smallest part

width

4"

width

4"

width

4"

width

4"

width

4"

width

entage strength of joint

40