

REPORT ON BOILERS.

No. 24748

15 AUG 1936

Received at London Office

Writing Report 7-8-1936 When handed in at Local Office

192

Port of

Rotterdam

Survey held at

Rotterdam

Date, First Survey

4th of April

Last Survey

11th of Aug 1936

(Number of Visits 27)

Gross
Tons
Net

on the

Main boilers S.S. VEERHAVEN

Built at

Sunderland

By whom built

W. Gray & Co Ltd

Yard No.

When built 1930

Boilers made at

W. Hartlepool

By whom made

Pent's Mar. Engine Works

Engine No.

When made 1930

Boilers made at

Rotterdam

By whom made

Rott Drogen Mij

Boiler No.

571-59 When made 1936

Horse Power

463

Owners

Ch. V. Gebr. & Udens Scheep en Agentuur Mij

Port belonging to

Rotterdam

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

Manufacturers of Steel

Mannesmannröhren Werke

(Letter for Record S)

Heating Surface of Boilers

6500 ft

Is forced draught fitted

yes

Coal or Oil fired

Coal

Description of Boilers

Three multitubular Mann boilers

Working Pressure

260 lbs

Tested by hydraulic pressure to

390 lbs

Date of test

25-7-36

No. of Certificate

880

Can each boiler be worked separately

yes

No. and Description of safety valves to each boiler

2 spring loaded

No. of each set of valves per boiler

per Rule

as fitted

original Pressure to which they are adjusted

260 lbs

Are they fitted with easing gear

yes

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Is oil fuel carried in the double bottom under boilers

no

Least distance between boilers or uptakes and bunkers or woodwork

Is the bottom of the boiler insulated

yes

Least distance between shell of boiler and tank top plating

Least internal dia. of boilers

43 44 mms

Length

3504 mms

Shell plates: Material

S.M. Steel

Tensile strength

45.8-52 kg/mm²

Thickness

41 mms

Are the shell plates welded

yes at one of butt

Description of riveting: circ. seams

end

cup 1 x 210

inter.

L

Pitch of rivets

124 mms

Seams

Double butt straps 3 x riv

Diameter of rivet holes in

circ. seams

42 mms

long. seams

42 mms

Percentage of strength of circ. end seams

plate

66%

rivets

55.3%

Percentage of strength of longitudinal joint

plate

84.6%

rivets

90.2%

combined

88%

Working pressure of shell by Rules

18.3 kg/cm²

Thickness of butt straps

outer

32 mms

inner

35 mms

No. and Description of Furnaces in each Boiler

3 Monon patent

Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Smallest outside diameter

1028 mms

Thickness of plain part

top

L

Thickness of plates

crown

19 mms

bottom

Description of longitudinal joint

Welded

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

19.1 kg/cm²

Plates in steam space: Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Thickness

32.5 mms

Pitch of stays

470 x 45 mms

Are stays secured

Screwed in plates with nuts inside & outside

Working pressure by Rules

18.5 kg/cm²

Plates: Material

front

S.M. Steel

Tensile strength

41-47 kg/mm²

Thickness

25 mms

back

S.M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mms

Pitch of stay tubes in nests

324 x 216 mms

Pitch across wide water spaces

356 mms

Working pressure

front

18.8 kg/cm²

back

L

Boilers to combustion chamber tops: Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Depth and thickness of girder

No. and pitch of stays

103 mms

Distance apart

103 mms

Centre

1 x 222 x 236 mms

Length as per Rule

838 mms

Working pressure by Rules

19 kg/cm²

Combustion chamber plates: Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Thickness

18.5 mms

Side strength

41-47 kg/mm²

Thickness: Sides

18.5 mms

Back

18.5 mms

Top

18.5 mms

Bottom

23.5 mms

Pitch of stays to ditto: Sides

216 x 203

Back

216 x 206

Top

203 x 216

Are stays fitted with nuts or riveted over

With nuts

Working pressure by Rules

18.5 kg/cm²

Front plate at bottom: Material

S.M. Steel

Thickness

2.5 mms

Lower back plate: Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23.5 mms

Are stays fitted with nuts or riveted over

Fitted with nuts

Pitch of stays at wide water space

356 mms

Working Pressure

19 kg/cm²

Main stays: Material

S.M. Steel

Tensile strength

44.1-50.1 kg/mm²

Area supported by each stay

214790 mms²

No. of threads per inch

9

At body of stay,

85 mms

Over threads

89 mms

Working pressure by Rules

20.9 kg/cm²

Screw stays: Material

S.M. Steel

Tensile strength

41-47 kg/mm²

Area supported by each stay

44604 mms²

No. of threads per inch

9

At turned off part,

41 mms

Over threads

44.5 mms

