

REPORT ON BOILERS.

No. 24176^a

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Hamburg

No. in Survey held at
Reg. Book.

Date, First Survey

Last Survey

19

(Number of Visits)

Gross 8102.
Net 4754

23490 on the SINGLE SCREW MOTOR VESSEL

"DRUPA"

Master

Built at HAMBURG.

By whom built DEUTSCHE WERFT. A.G. Yard No. 218 When built 1939.

Engines made at AUGSBURG.

By whom made MASCHFAB. AUGSBURG - NÜRNBERG. Engine No. When made 1939.

Boilers made at HAMBURG

By whom made DEUTSCHE WERFT A.G. Boiler No. 766 When made 1939.

Nominal Horse Power 502.

Owners

Port belonging to

MULTITUBULAR BOILERS ~~MAIN MULTITUBULAR~~ DONKEY.

Manufacturers of Steel

(Letter for Record S)

Total Heating Surface of Boilers

2515 sq. ft.

Is forced draught fitted

Coal or Oil fired Oil.

No. and Description of Boilers

One Cylindrical multitubular

Working Pressure 180 lb/in²Tested by hydraulic pressure to 320 lb/in² Date of test

No. of Certificate ?

Can each boiler be worked separately ?

Area of Firegrate in each Boiler

Oil fired

No. and Description of safety valves to each boiler 1 double

Area of each set of valves per boiler { per Rule 16.1 sq. ins.
as fitted 20.6 ?

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 X

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated ?

Largest internal dia. of boilers 4362 mm

Length 3505 mm

Shell plates: Material

Steel Tensile strength 47-53 Kgs/cm²

Thickness 29 mm

Are the shell plates welded or flanged No

Description of riveting: circ. seams { end D.R. 19b
inter.

long. seams T.R. D.B.S.

Diameter of rivet holes in { circ. seams 32 mm
long. seams 32 mmPitch of rivets { 100 mm
245 mmPercentage of strength of circ. end seams { plate 68
rivets 42.5Percentage of strength of circ. intermediate seam { plate
rivetsPercentage of strength of longitudinal joint { plate 85
rivets 92.6
combined 88.7Working pressure of shell by Rules 186 lb/in²Thickness of butt straps { outer 29 mm
inner 29 mm

No. and Description of Furnaces in each Boiler 3 Morrison corrugated

Material Steel

Tensile strength 41-47 Kgs/cm²

Smallest outside diameter 1080 mm

Length of plain part { top 217 mm
bottom 217 mmThickness of plates { crown 15 mm
bottom 15 mm

Description of longitudinal joint Welded

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

Working pressure of furnace by Rules 202 lbs/in²

End plates in steam space: Material Steel

Tensile strength 41-47 Kgs/cm²

Thickness 29 mm Pitch of stays 420 x 410 mm

How are stays secured Double nuts & washers

Working pressure by Rules 288 lbs/in²Tube plates: Material { front Steel
back SteelTensile strength { 41-47 Kgs/cm²
41-47 Kgs/cm²Thickness { 26 mm
26 mm

Mean pitch of stay tubes in nests 208 mm

Pitch across wide water spaces 360 x 208 mm Working pressure { front 570 lbs/in²
back "

Girders to combustion chamber tops: Material Steel

Tensile strength 47-53 Kgs/cm²

Depth and thickness of girder

at centre 230 x 24 mm

Length as per Rule 774 mm

Distance apart 180 mm

No. and pitch of stays

in each 2 x 210 mm

Working pressure by Rules 192 lbs/in²

Combustion chamber plates: Material Steel

Tensile strength 41-47 Kgs/cm²

Thickness: Sides 19 mm Back 20 mm Top 19 mm Bottom 25 mm

Margin - nuts

Pitch of stays to ditto: Sides 200 x 220 mm Back 200 x 200 mm Top 210 x 180 mm Are stays fitted with nuts or riveted over Others - Riveted

Working pressure by Rules 222 lbs/in²

Front plate at bottom: Material Steel

Tensile strength 41-47 Kgs/cm²

Thickness 26 mm

Lower back plate: Material Steel

Tensile strength 41-47 Kgs/cm² Thickness 26 mm

Pitch of stays at wide water space 360 x 200 mm

Are stays fitted with nuts or riveted over Margin - nuts. Others - riveted

Working Pressure 262 lbs/in²

Main stays: Material Steel

Tensile strength 47-53 Kgs/cm²Diameter { At body of stay,
or
Over threads

76 mm

No. of threads per inch 8

Area supported by each stay 410 x 420 mm

Working pressure by Rules 258 lbs/in²

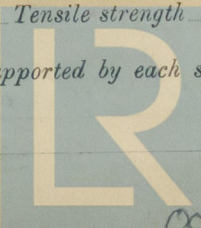
Screw stays: Material Steel

Tensile strength 41-47 Kgs/cm²Diameter { At turned off part,
or
Over threads

39 mm

No. of threads per inch 9

Area supported by each stay 208 x 200 mm

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