

## REPORT ON BOILERS.

No. 21883

-4 MAY 1936

Received at London Office

Date of writing Report 25/4/36

When handed in at Local Office

Port of Hamburg

No. in Survey held at Kiel

Date, First Survey 30/10/35

Last Survey 2/4/36

19319 on the Steel S.S. "Naragansett"

(Number of Visits 9)

Gross 10389

Tons Net 5940

Master Built at Kiel

By whom built Fried. Krupp Germaniawerft Yard No. 540 When built 1936

Engines made at Kiel

By whom made Fried. Krupp Germaniawerft Engine No. 5091 When made 1936

Boilers made at Kiel

By whom made Fried. Krupp Germaniawerft Boiler No. 3880 When made 1936

Nominal Horse Power 912

Owners British-American Petrol. Co. Ltd. Port belonging to London

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Ruhrstahl A.G., Henrichshütte, Hattingen, Krupp A.G., Essen (Letter for Record S ✓)

Total Heating Surface of Boilers 130 m<sup>2</sup> ✓

Is forced draught fitted no ✓ Coal or Oil fired wh. gas ✓

No. and Description of Boilers 1 multitubular horizontal waste heat D. Boiler Working Pressure 200 lb ✓

Tested by hydraulic pressure to 350 lb Date of test 27.12.35 No. of Certificate 602 Can each boiler be worked separately no

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1, 2 springs loaded ✓

Area of each set of valves per boiler (per Rule 5270 m<sup>2</sup> as fitted 5655 m<sup>2</sup>) Pressure to which they are adjusted 200 lb Are they fitted with easing gear yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork ✓

Is oil fuel carried in the double bottom under boilers tw. deck

Smallest distance between shell of boiler and tank top plating 450 mm

Is the bottom of the boiler insulated yes ✓

Largest internal dia. of boilers 2300 mm Length 2681 mm Shell plates: Material 0.4 Steel Tensile strength 41-47 kg/mm<sup>2</sup> ✓

Thickness 20 mm Are the shell plates welded or flanged flanged ✓ Description of riveting: circ. seams {end D.R. ✓ inter. - ✓

Long. seams Double 6t. straps Diameter of rivet holes in {circ. seams 19 mm ✓ long. seams 29 mm ✓ Pitch of rivets {90 mm 90 ✓ 159 mm ✓

Percentage of strength of circ. end seams {plate 67.8 rivets 43. -

Percentage of strength of circ. intermediate seam {plate - rivets -

Percentage of strength of longitudinal joint {plate 81.7 rivets 198. - combined 93.2

Working pressure of shell by Rules 15- kg/cm<sup>2</sup>

Thickness of butt straps {outer 20 mm inner 20 mm

No. and Description of Furnaces in each Boiler removable system of tubes ✓

Material 0.4 Steel

Tensile strength 41-47 kg/mm<sup>2</sup> ✓

Smallest outside diameter ✓

Length of plain part {top - bottom -

Thickness of plates {crown - bottom -

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material 0.4 Steel Tensile strength 41-47 kg/mm<sup>2</sup> Thickness 28 mm Pitch of stays A=300 mm

How are stays secured Stay tubes expanded, no nuts ✓

Working pressure by Rules as approved

Tube plates: Material {front 0.4 Steel back 0.4 Steel ✓

Tensile strength {41-47 kg/mm<sup>2</sup> ✓

Thickness {28 mm ✓ 25 mm ✓

Mean pitch of stay tubes in nests 150 x 150 mm Pitch across wide water spaces

Working pressure {front as approved back as approved

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre Length as per Rule

Distance apart

No. and pitch of stays

n each Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material 0.4 Steel Tensile strength 41-47 kg/mm<sup>2</sup> ✓Thickness 28 mm Lower back plate: Material 0.4 Steel Tensile strength 41-47 kg/mm<sup>2</sup> Thickness 28 mm

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure as approved

Main stays: Material

Tensile strength

Diameter {At body of stay, or Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter {At turned off part, or Over threads

No. of threads per inch

Area supported by each stay

W1150-0062

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