

# REPORT ON BOILERS.

No. 22240

Received at London Office 17 MAR 1937

Date of writing Report 13, Febr. 1937 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at HAMBURG Date, First Survey 7th January Last Survey 23 January 1937

(Number of Visits 5) Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_

Master Jm Built at Wesermünde G. By whom built Messrs Deschimag "Seebeck" Yard No. 572 When built 1937

Engines made at \_\_\_\_\_ By whom made \_\_\_\_\_ Engine No. \_\_\_\_\_ When made \_\_\_\_\_

Boilers made at Hamburg By whom made Messrs Deutsche Werft A.G. Boiler No. 693/94 When made 1937

Nominal Horse Power \_\_\_\_\_ Owners United Afrika Co. Port belonging to Liverpool

## Waste Heat La Mont Donkey Boiler Coil System

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

Headers:- Klöckner-Werke A.G. Abt. Georgmarienhütte

Manufacturers of Steel Tubes:- Mannesmannröhren-Werke, Witten (Letter for Record S)

Total Heating Surface of Boilers 40m<sup>2</sup> Is forced draught fitted / Coal or Oil fired Waste Gas Heated

No. and Description of Boilers 2; Waste Heat La Mont Donkey Boilers Working Pressure 7 Kgs/sq cm

Tested by hydraulic pressure to 14/sq cm Date of test 23-1-37 No. of Certificate 653/54 Can each boiler be worked separately only in connection with vertical Donkey Boiler

Area of Firegrate in each Boiler \_\_\_\_\_ No. and Description of safety valves to each boiler 1; one spring loaded

Area of each set of valves per boiler { per Rule \_\_\_\_\_ as fitted 707mm; 300 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 /

Smallest distance between boilers or uptakes and bunkers or woodwork \_\_\_\_\_ Is oil fuel carried in the double bottom under boilers \_\_\_\_\_

Smallest distance between shell of boiler and tank top plating \_\_\_\_\_ Is the bottom of the boiler insulated \_\_\_\_\_

Largest internal dia. of boilers Height 2700 mm Headers S, M, Steel Shell plates: Material roundbars bored Tensile strength 41-47 kg/mm<sup>2</sup>

Thickness 100mm outs 60mm ins Are the shell plates welded or flanged \_\_\_\_\_ Description of riveting: circ. seams { end \_\_\_\_\_ inter. \_\_\_\_\_

Thickness 100mm outs 60mm ins Diameter of rivet holes in { Circ. seams \_\_\_\_\_ Long. seams \_\_\_\_\_ Thickness 26/32 Pitch of rivets { 3mm

No. of Coils 2 double coils Diameter of rivet holes in { Circ. seams \_\_\_\_\_ Long. seams \_\_\_\_\_ Thickness 26/32 Pitch of rivets { 3mm

Percentage of strength of circ. end seams { plate \_\_\_\_\_ rivets \_\_\_\_\_ Percentage of strength of circ. intermediate seam { plate \_\_\_\_\_ rivets \_\_\_\_\_

Percentage of strength of longitudinal joint { plate \_\_\_\_\_ rivets \_\_\_\_\_ combined \_\_\_\_\_ Working pressure of shell by Rules 16,2 Kgs/sq cm

Thickness of butt straps { outer \_\_\_\_\_ inner \_\_\_\_\_ No. and Description of Furnaces in each Boiler \_\_\_\_\_

Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ 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 \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_ Pitch of stays \_\_\_\_\_

How are stays secured \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_

Tube plates: Material { front \_\_\_\_\_ back \_\_\_\_\_ Tensile strength { \_\_\_\_\_ Thickness { \_\_\_\_\_

Lean pitch of stay tubes in nests \_\_\_\_\_ Pitch across wide water spaces \_\_\_\_\_ Working pressure { front \_\_\_\_\_ back \_\_\_\_\_

Orders to combustion chamber tops: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Depth and thickness of girder \_\_\_\_\_

Centre \_\_\_\_\_ Length as per Rule \_\_\_\_\_ Distance apart \_\_\_\_\_ No. and pitch of stays \_\_\_\_\_

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 \_\_\_\_\_ Tensile strength \_\_\_\_\_

Thickness \_\_\_\_\_ Lower back plate: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_

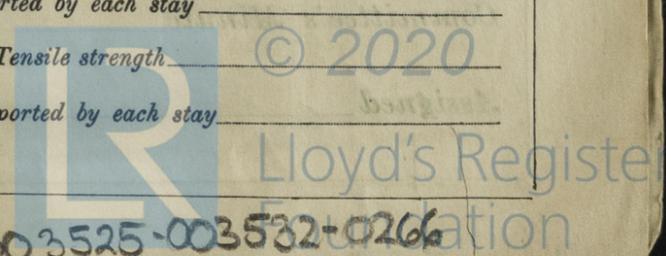
Pitch of stays at wide water space \_\_\_\_\_ Are stays fitted with nuts or riveted over \_\_\_\_\_

Working Pressure \_\_\_\_\_ 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 \_\_\_\_\_



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