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# REPORT ON BOILERS.

No. 19163.



Received at London Office 8 SEP 1950

of writing Report 31st Aug 50. When handed in at Local Office 19 Port of MIDDLESBROUGH.

Survey held at Stockton-on-Tees. Date, First Survey 17th August. Last Survey 29th August 19 50.

on the ROSA MAERSK (Number of Visits 2. Gross 8191.83 Tons Net 4827.10)

By whom built Yard No. When built

By whom made Engine No. When made

Boilers made at Stockton-on-Tees. By whom made Stockton Chemical Engineers & Riley Boilers Ltd. Boiler No. 7129 When made 1950

Port belonging to

## VERTICAL DONKEY BOILER.

By whom made Stockton CE & RB. Ltd. Boiler No. 7129 When made 1950 Where fixed

Manufacturers of Steel Appleby Fredingham Steel Co.

Heating Surface of Boiler 1154 sq. ft. Is forced draught fitted Yes Coal or Oil fired Ex. Gas

Description of Boilers 1 Swirlyflo Waste Heat Boiler Working pressure 180

Are drain tested by hydraulic pressure to 320 Date of test 29.8.50. No. of Certificate 7311

No. and Description of safety valves to each boiler 1 - 2" C.S. double

Pressure to which they are adjusted 6.28 Are they fitted with easing gear

whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 5'6" Height 10'9"

Material Steel Tensile strength 28 - 32 Thickness 5/8"

the shell plates welded or flanged No If fusion welded, state name of welding firm

all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams end DRL inter.

seams DR, DBS Dia. of rivet holes in circ. seams 15/16" Pitch of rivets 3.049" Percentage of strength of circ. seams plate 69.15 rivets 59.5

Thickness of butt straps outer 5/8" inner 5/8" Shell Crown: Whether complete hemisphere, dished partial

Material Tensile strength Thickness

Description of Furnace: Plain, spherical, or dished crown Material

External diameter top bottom Length as per rule

of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Radius of spherical or dished furnace crown

Diameter as per rule D a

Material Tensile strength Thickness of top plate

Thickness of back plate Diameter if circular

Pitch of stays

Diameter of stays over thread

Plates: Material front Steel Tensile strength 26.30 Thickness 1" Mean pitch of stay tubes in nests 8 1/16"

Pitch in outer vertical rows Dia. of tube holes FRONT BACK

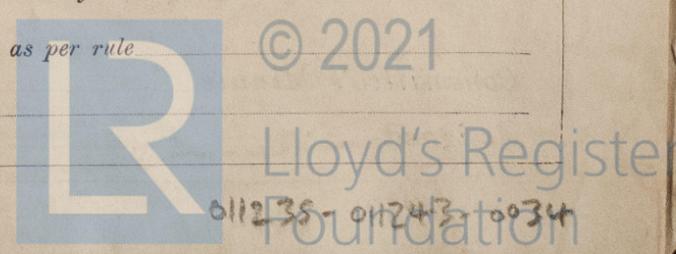
ch alternate tube in outer vertical rows a stay tube

Material Tensile strength

Length as per rule

No. and pitch of stays in each

14-9-50



**Crown stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at body of stay, \_\_\_\_\_ or \_\_\_\_\_ over threads. \_\_\_\_\_

No. of threads per inch \_\_\_\_\_ **Screw stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_

Diameter { at turned off part, \_\_\_\_\_ or \_\_\_\_\_ over threads. \_\_\_\_\_ No. of threads per inch \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_

**Tubes:** Material Hot Rolled Weldless Steel ✓ External diameter { plain 2" ✓ stay 2" ✓ Thickness { 9 S.W.G. ✓ 3/8" ✓

No. of threads per inch Welded. Pitch of tubes 3" Diamond Pitch. ✓

**Manhole Compensation:** Size of opening in shell plate 16 x 12 ✓ Section of compensating ring 6 1/2" x 7/8" ✓ No. of rivets and diam. of rivet holes Welded. ✓ Outer row rivet pitch at ends \_\_\_\_\_ Depth of flange if manhole flanged \_\_\_\_\_

**Uptake:** External diameter \_\_\_\_\_ Thickness of uptake plate \_\_\_\_\_

**Cross Tubes:** No. \_\_\_\_\_ External diameters { \_\_\_\_\_ Thickness of plates \_\_\_\_\_

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description,  
 For and on behalf of  
 Houston Chemical Engineers & Riser Boilers Ltd.  
 Manufact

*H. Gowley*

**Dates of Survey while building** { During progress of work in shops - - { XI 1950 IX XI 17th X 29th August XXX Is the approved plan of boiler forwarded herewith (If not state date of approval.) Two.  
 { 1949 Feb. 23 Oct. 5 (1950) Mar 15, May 26  
 { During erection on board vessel - - { July 4, 11, 21, Aug. 29. Total No. of visits XXIX 8.

Is this Boiler a duplicate of a previous case \_\_\_\_\_ If so, state Vessel's name and Report No. \_\_\_\_\_

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This boiler has been constructed under Special Survey and in accordance with the approved plans and Rule Requirements and the material and workmanship are good.

On completion the boiler was hydraulically tested to 320 lbs per sq. inch and found satisfactory.

This boiler is being forwarded to Messrs. Blyth Shipbuilding Co. Ltd. for Spanner Boilers, the contract, No. J. 397.

Survey Fee ... .. £ 18 : 18 : } When applied for, 7th Sept. 50.  
 Travelling Expenses (if any) £ : : } When received, ..... 19.....

*C. Norman Stuart*  
 Engineer Surveyor to Lloyd's Register of Shipping

FRI. 4 MAY 1951

Committee's Minute \_\_\_\_\_  
 Assigned See F.E. Welch report.

