

IVED

550

# REPORT ON BOILERS.

No. 19163.

Received at London Office

8 SEP 1950

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

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

W.H. VERTICAL ~~DONKEY~~ BOILER.

Boiler made at Stockton. 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 1134 sq.ft. Is forced draught fitted Yes Coal or Oil fired Ex. Gas

Description of Boilers 1 Swirlyfle 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. of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 - 2" C.S. double

No. of each set of valves per boiler per rule as fitted 6.28 Pressure to which they are adjusted 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"

Plates: 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

Longitudinal joint plate 75.4 rivets 89.2 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

Strength Thickness 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

Thickness of Ogee Ring Diameter as per rule D d

Combustion Chamber: Material Tensile strength Thickness of top plate

Thickness of back plate Diameter if circular

Pitch of stays

Stays fitted with nuts or riveted over 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"

comprising shell, Dia. as per rule front Pitch in outer vertical rows Dia. of tube holes FRONT stay BACK stay plain plain

each alternate tube in outer vertical rows a stay tube

Registers to combustion chamber tops: Material Tensile strength

Length and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each



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" 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 & Shipbuilders Ltd.

*H. G. G. G.*

Is the approved plan of boiler forwarded herewith \_\_\_\_\_ Two.  
(If not state date of approval.)

Dates of Survey while building	During progress of work in shops -	During erection on board vessel -
	1949 Feb. 23 Oct. 5 (1950) Mar 15, May 26	July 4, 11, 21, Aug. 29.

Total No. of visits XX2XX 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 1950.

Travelling Expenses (if any) £ : : When received, 19

FRI. 4 MAY 1951

Committee's Minute

Assigned

*See F.E. mch. rpt.*

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



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