

REPORT ON BOILERS.

No. 8228

Received at London Office.....

When handed in at Local Office **10-6-** 19**60** Port of **Piraeus**

at **Piraeus** Date, First Survey **1.8.59** Last Survey **17.10.59** 19**60**

S.S. **"GEORGIOS MANOLAKIS"** (Number of Visits.....) Gross **10066** Tons Net **6210**

Built at..... By whom built..... Yard No..... When built.....

By whom made **Masch. Augsburg-Nurnberg** Engine No..... When made.....

By whom made **Deutsche Werft** Boiler No..... When made **1938**

Owners **Kydoniae Shipping Co.Ltd.** Port belonging to **Piraeus**

MAIN BOILERS—MAIN, AUXILIARY, OR DONKEY.

..... (Letter for Record.....)

Area of Boilers **145 m²** Is forced draught fitted **Yes.** Coal or Oil fired **Oil**

No. of Boilers **2 Scotch Multitubular wet bottom boiler with Steam Dome** Working Pressure **170 PSI**

Working pressure to **305** ✓ Date of test..... No. of Certificate **-** Can each boiler be worked separately **Yes.**

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

No. of valves per boiler..... Pressure to which they are adjusted **170PSS** Are they fitted with easing gear **Yes.**

Boilers, state whether steam from main boilers can enter the donkey boiler **No.**

Distance between boilers or uptakes and bunkers or woodwork **4' - 0** Is oil fuel carried in the double bottom under boilers **No.**

Distance between shell of boiler and tank top plating **Boilers are on raised platform** Is the bottom of the boiler insulated **Yes.**

Diameter of boilers **340mm** ✓ Length **3294mm** ✓ Shell plates: Material **SM steel** Tensile strength **47/53kg/mm²**
29mm on 96mm pitch

Are the shell plates welded or flanged **Flanged** Description of riveting: circ. seams **96** ✓

butt Strap triple rivetted Diameter of rivet holes in circ. seams **29mm** ✓ Pitch of rivets **17mm outer inner 85.5mm**
 long. seams **26mm** ✓

Percentage of strength of circ. intermediate seam plate **70%** rivets **52.5%** ✓

Percentage of strength of circ. intermediate seam rivets **108.2%** ✓

Working pressure of shell by Rules **170 PSI** ✓

No. and Description of Furnaces in each Boiler **2 corrugated type**

Tensile strength **41/47kg/mm²** Smallest outside diameter **974mm**

Thickness of plates **12mm** ✓ Description of longitudinal joint.....

Working pressure of furnace by Rules **178.3 PSI**

Material **SM steel** Tensile strength **41/47** Thickness **22mm** Pitch of stays **390x380mm**

Working pressure by Rules **229.2 PSI**

Material **SM steel** Tensile strength **41/47 kg/mm²** Thickness **22mm** ✓

Working pressure **380.6 PSI** front **380.6 PSI** back **380.6 PSI**

Material **SM steel** Tensile strength **41/47** Depth and thickness of girder.....

Length as per Rule **442 mm** Distance apart **220mm** No. and pitch of stays.....

Working pressure by Rules **290.1 PSI** Combustion chamber plates: Material **SM steel**

Thickness: Sides **16** ✓ Back **19** ✓ Top **16** ✓ Bottom **22** ✓

Are stays fitted with nuts or riveted over **with nuts**

Front plate at bottom: Material **22mm** ✓ Tensile strength **41/47**

Lower back plate: Material **-** Tensile strength **-** Thickness **-**

Are stays fitted with nuts or riveted over **No. with nuts**

Main stays: Material **SM Steel** Tensile strength **41/47**

No. of threads per inch **6 TPI** Area supported by each stay **190mm x 195 mm**

Screw stays: Material **MS steel** Tensile strength **41/47**

No. of threads per inch..... Area supported by each stay **145mm x 150mm**



Working pressure by Rules... Are the stays drilled at the outer ends No. Margin stays: Diameter (At turned off part, or Over threads. 4.5mm 5mm)

No. of threads per inch 9 TRI Area supported by each stay 190x 210mm Working pressure by Rules

Tubes: Material SD Steel External diameter (Plain 76mm Stay 76mm) Thickness 3.75mm No. of threads per inch

Pitch of tubes 104mm x 104mm Working pressure by Rules Manhole compensation: Size of opening

shell plate 300x 400mm Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged 82mm Steam Dome: Material MS steel

Tensile strength 41/47 Thickness of shell 14mm Description of longitudinal joint DR single buttshit

Diameter of rivet holes 25mm Pitch of rivets 74mm Percentage of strength of joint (Plate Rivets)

Internal diameter 800mm Working pressure by Rules Thickness of crown 17mm No. and diameter of stays

How connected to shell DR through flange Size of doubling plate under dome 750 mm dia x 25 mm Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 18 rivets 199 mm pitch 29 mm dia

Type of Superheater

Manufacturers of Tubes, Steel forgings, Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes forgings and castings and after assembly in place Are drain cocks of valves fitted to free the superheater from water where necessary

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

The foregoing is a correct description,

Dates of Survey while building (During progress of work in shops, During erection on board vessel)

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval)

Total No. of visits

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 examined and all dimensions checked as per plans submitted by the Owners and found satisfactory. The condition of the boiler is good the boiler was examined extremely and under hydro test and full steam conditions and all found good it is submitted that these boilers are in fit condition to be placed in a vessel classed with this Society.

Survey Fee £ 48.0 : 0 When applied for 8.2.1960

Travelling Expenses (if any) £ : - : When received 23.2.1960

Signature of Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

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