

# REPORT ON BOILERS.

No. 8228

Received at London Office

When handed in at Local Office 10-6-1960 Port of Piraeus

Date, First Survey 1.8.59 Last Survey 17.10.59

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 m<sup>2</sup> 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

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

Pressure to which they are adjusted 170 PSI Are they fitted with easing gear Yes.

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

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

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

dia. of boilers 3400mm Length 3294mm Shell plates: Material SM steel Tensile strength 47/53kg/mm<sup>2</sup> 29mm on 96mm pitch

Are the shell plates welded or flanged Flanged

butt Strap triple rivetted

Description of riveting: circ. seams 29mm Pitch of rivets 171mm outer inner 85.5mm

Length of circ. end seams 70% 52.5% Percentage of strength of circ. intermediate seam 108.2%

Length of longitudinal joint 91.9% Working pressure of shell by Rules 170 PSI

combined

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

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

Screw thro plate with double nuts. WASHER INSIDE Working pressure by Rules 229.2 PSI

Material SM steel Tensile strength 41/47kg/mm<sup>2</sup> Thickness 22mm

Working pressure 380.6 PSI

Working pressure 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

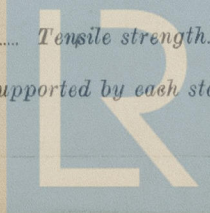
Are stays fitted with nuts or riveted over No. with nuts

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



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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 51mm)  
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 76 mm Stay 76 mm Thickness 3.75mm 8mm No. of threads per inch  
Pitch of tubes 104mm x 104 mm Working pressure by Rules Manhole compensation: Size of opening  
shell plate 300x 400 mm Section of compensating ring - No. of rivets and diameter of rivet holes -  
Outer row rivet pitch at ends Depth of flange if manhole flanged 82 mm Steam Dome: Material MS steel  
Tensile strength 41/47 Thickness of shell 14 mm Description of longitudinal joint DR single buttshit  
Diameter of rivet holes 23mm 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 - Inner radius of crown 800mm Working pressure by Rules  
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 4 Internal diameter and thickness of tubes  
Material of headers - Tensile strength - Thickness - Can the superheater be shut off and  
the boiler be worked separately - Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
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  
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,

Manufacturer

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
During erection on board vessel - - - 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. 19.60  
Travelling Expenses (if any) £ : - : When received 23.2. 19.60

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



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Dates of Survey while building { Du v Du U

Is this boiler

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