

# REPORT ON BOILERS.

No. 18884.

Received at London Office

9 MAY 1928

Date of writing Report 3/4/28 When handed in at Local Office 3<sup>rd</sup> May 1928 Port of Greenock  
 No. in Survey held at Greenock Date, First Survey \_\_\_\_\_ Last Survey \_\_\_\_\_  
 Reg. Book. \_\_\_\_\_ on the S/S "Antigone" (Number of Visits \_\_\_\_\_) Gross 4545 Tons Net 2835  
 Master \_\_\_\_\_ Built at Glasgow By whom built Harper Miller & Co. Ltd. 265 When built 1928  
 Engines made at Greenock By whom made John & Kincaid, C. & Co. (Glasgow) When made 1928  
 Boilers made at ditto By whom made ditto (Glasgow) When made 1928  
 Registered Horse Power \_\_\_\_\_ Owners New Egypt, Leval & Puffinb. & Co. Ltd. Port belonging to London.

## MULTITUBULAR BOILERS—MAIN, ~~GREENOCK DONKEY~~—Manufacturers of Steel Colville & Co. Ltd. Glasgow, Scotland

(Letter for record S) Total Heating Surface of Boilers 6999 sq ft Is forced draft fitted No No. and Description of Boilers 3 Single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 23.12.27  
 No. of Certificate 1799 Can each boiler be worked separately yes Area of fire grate in each boiler 61.845 sq ft No. and Description of safety valves to each boiler Double spring Area of each valve 8.29 sq ft Pressure to which they are adjusted 185  
 Are they fitted with easing gear yes 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 5-6 ft diam. of boilers 15-6 Length 11-6  
 Material of shell plates S Thickness 1 1/4 Range of tensile strength 28/32 Are the shell plates welded or flanged \_\_\_\_\_  
 Descrip. of riveting: cir. seams DR long. seams TRIDBS Diameter of rivet holes in long. seams 19/32 Pitch of rivets 9 1/8  
 Length plates or width of butt straps 19 1/8 Per centages of strength of longitudinal joint \_\_\_\_\_ Working pressure of shell by rules 181  
 Size of manhole in shell 16 1/2 x 20 1/2 Size of compensating ring 2.1178 x 2.678 x 15/16 No. and Description of Furnaces in each boiler 3 Delightous Material S Outside diameter 4.1 1/4 Length of plain part \_\_\_\_\_ Thickness of plates crown 19/32 bottom \_\_\_\_\_  
 Description of longitudinal joint weld No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules 185 Combustion chamber plates: Material S Thickness: Sides 1 1/16 Back 43/64 Top 1 1/16 Bottom 7/8 Pitch of stays to ditto: Sides 8 1/2 x 9 1/16 Back 10 5/8 x 7 7/8  
 Top 9 7/16 x 9 1/16 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184 Material of stays S Area at smallest part 173.203 Area supported by each stay 83.6 Working pressure by rules 186 End plates in steam space: Material S Thickness 19/32  
 Pitch of stays 23 x 20 1/2 How are stays secured DN Working pressure by rules 185 Material of stays S Area at smallest part 7.85  
 Area supported by each stay 441.15 Working pressure by rules 193 Material of Front plates at bottom S Thickness 1 Material of Lower back plate S Thickness 27/32 Greatest pitch of stays 13 5/8 Working pressure of plate by rules 184 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 x 4 7/16 Material of tube plates S Thickness: Front 1 Back 13/16 Mean pitch of stays 11.18 Pitch across wide water spaces 14 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 3/4 x 3 3/4 (2) Length as per rule 39.52 Distance apart 9 Number and pitch of Stays in each 3 at 9 1/16  
 Working pressure by rules 186 Steam dome: description of joint to shell \_\_\_\_\_ % of strength of joint \_\_\_\_\_  
 Diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_  
 Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

~~SUPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_  
 Diameter of Safety Valve \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_~~

The foregoing is a correct description,  
 FOR JOHN G. KINCAID & COY. LIMITED  
 Manufacturer.

Dates of Survey { During progress of work in shops - - }  
 while { During erection on board vessel - - - }  
 building { }  
 Is the approved plan of boiler forwarded herewith DIRECTOR  
 Total No. of visits \_\_\_\_\_

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plans & the workmanship is of good quality. They are now securely fitted on board. This Rept. accompanies that of the Machinery.

Survey Fee ... £ \_\_\_\_\_ When applied for, ..... 19.....  
 Travelling Expenses ... £ \_\_\_\_\_ When received, ..... 19.....  
Charged on Machinery Rept.

Committee's Minute GLASGOW 8 - MAY 1928  
 Assigned See accompanying Mach. Report.  
 J. Gordon-Mitchell  
 Engineer Surveyor to Lloyd's Register of Shipping.

W232-0024

