

## 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 3rd May 1928 Port of Greenock

No. in Survey held at Greenock Date, First Survey Last Survey 19

Reg. Book. S/S "Antigone" (Number of Visits) Gross 4545 Tons Net 2835

on the

Master Built at Glasgow By whom built Napier Miller & Co. Ltd. 265 When built 1928

Engines made at Greenock By whom made John & Thos. Caird, Ltd. (642) When made 1928

Boilers made at ditto By whom made ditto (642) When made 1928

Registered Horse Power Owners New Egypt, Leval & Humphreys Ltd. Port belonging to London.

MULTITUBULAR BOILERS—MAIN, ~~MANUFACTURED BY DONKEY~~—Manufacturers of Steel Colville & Co. Ltd., Glasgow

(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. in. 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 in. dia. of boilers 15-6 in. Length 11-6 in.

Material of shell plates S Thickness 1 1/4 in. 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 9/32 Pitch of rivets 9/18

Length of plates or width of butt straps 19 1/8 in. Per centages of strength of longitudinal joint rivets 87.4 plate 85.9 1. Working pressure of shell by

rules 181 Size of manhole in shell 16 1/2 x 20 1/2 in. Size of compensating ring 2.11 7/8 x 2.6 7/8 x 5 1/16 in. No. and Description of Furnaces in each

boiler 3 Delightous Material S Outside diameter 4.1 1/4 in. Length of plain part top 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 in. Back 43/64 in. Top 1 1/16 in. Bottom 7/8 in. Pitch of stays to ditto: Sides 8 1/2 x 9 1/16 in. Back 10 5/8 x 7 7/8 in.

Top 9 7/8 x 9 1/16 in. If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184 Material of stays S Area at

smallest part 13.203 Area supported by each stay 83.6 sq. in. Working pressure by rules 186 End plates in steam space: Material S Thickness 19/32

Pitch of stays 23 x 20 1/2 in. 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 441.5 sq. in. Working pressure by rules 193 Material of Front plates at bottom S Thickness 1 in. Material of

Lower back plate S Thickness 27/32 in. Greatest pitch of stays 13 5/8 in. Working pressure of plate by rules 184 Diameter of tubes 3 1/4 in.

Pitch of tubes 4 1/2 x 4 7/16 in. Material of tube plates S Thickness: Front 1 in. Back 13/16 in. Mean pitch of stays 11.18 in. Pitch across wide

water spaces 14 in. Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of

girder at centre 103/4 x 3 3/4 (2) in. Length as per rule 39.52 in. Distance apart 9 in. Number and pitch of Stays in each 3 at 9 1/16 in.

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 &amp; COY. LIMITED

Manufacturer.

Dates of Survey

During progress of work in shops - -

while building During erection on board vessel - - -

See Machinery Report

Is the approved plan of boiler forwarded herewith DIRECTOR

Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;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...

Committee's Minute GLASGOW 8 - MAY 1928

Assigned See accompanying Mach. Report.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

10232-0024