

# REPORT ON BOILERS.

No. 92664

Received at London Office

25 JUN 1935

Report 22<sup>nd</sup> June, 1935 When handed in at Local Office 22<sup>nd</sup> June 1935 Port of NEWCASTLE-ON-TYNE

Survey held at Newcastle-on-Tyne Date, First Survey 29 April Last Survey 17.6. 1935.

the T.S.S. "MAIMO A" (Number of Visits ) Tons { Gross 8011 Net 5000

Built at Newcastle-on-Tyne By whom built Palmers' Co. Ltd. Yard No. - When built 1920.9.

at Newcastle-on-Tyne By whom made Palmers' Co. Ltd. Engine No. - When made 1920.

at Newcastle-on-Tyne By whom made Palmers' Co. Ltd. Boiler No. - When made 1920.

Power 1039. Owners Shaw, Savill & Albion Co. Ltd. Port belonging to Southampton

TUBULAR BOILERS—MAIN, ~~AUXILIARY, OR DONKEY.~~

~~Fitting of Superheaters to the Main Boilers.~~

(Letter for Record

ing Surface of Boilers Is forced draught fitted Coal or Oil fired

scription of Boilers Working Pressure

draulic pressure to Date of test No. of Certificate Can each boiler be worked separately

egrate in each Boiler No. and Description of safety valves to each boiler

h set of valves per boiler { per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

onkey boilers, state whether steam from main boilers can enter the donkey boiler

istance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

istance between shell of boiler and tank top plating Is the bottom of the boiler insulated

ernal dia. of boilers Length Shell plates: Material Tensile strength

Are the shell plates welded or flanged Description of riveting circ. seams { end inter.

Diameter of rivet holes in { circ. seams long. seams Pitch of rivets {

of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules

f butt straps { outer inner No. and Description of Furnaces in each Boiler

Tensile strength Smallest outside diameter

lain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint

of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

in steam space: Material Tensile strength Thickness Pitch of stays

ays secured Working pressure by Rules

st: Material { front back Tensile strength { Thickness {

of stay tubes in nests Pitch across wide water spaces Working pressure { front back

combustion chamber tops: Material Tensile strength Depth and thickness of girder

Length as per Rule Distance apart No. and pitch of stays

Working pressure by Rules Combustion chamber plates: Material

ength Thickness: Sides Back Top Bottom

ays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

ressure by Rules Front plate at bottom: Material Tensile strength

Lower back plate: Material Tensile strength Thickness

ays at wide water space Are stays fitted with nuts or riveted over

ressure Main stays: Material Tensile strength

t body of stay, or per threads No. of threads per inch Area supported by each stay

ressure by Rules Screw stays: Material Tensile strength

t turned off part, or per threads No. of threads per inch Area supported by each stay

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Working pressure by Rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_ Margin stays: Diameter { At turned off part, or Over threads }  
No. of threads per inch \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_  
Tubes: Material \_\_\_\_\_ External diameter { Plain \_\_\_\_\_ Stay \_\_\_\_\_ } Thickness { \_\_\_\_\_ No. of threads per inch \_\_\_\_\_ }  
Pitch of tubes \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_ Manhole compensation: Size \_\_\_\_\_  
shell plate \_\_\_\_\_ Section of compensating ring \_\_\_\_\_ No. of rivets and diameter of rivet holes \_\_\_\_\_  
Outer row rivet pitch at ends \_\_\_\_\_ Depth of flange if manhole flanged \_\_\_\_\_ Steam Dome: Material \_\_\_\_\_  
Tensile strength \_\_\_\_\_ Thickness of shell \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_  
Diameter of rivet holes \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Percentage of strength of joint { Plate \_\_\_\_\_ Rivets \_\_\_\_\_ }  
Internal diameter \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_ Thickness of crown \_\_\_\_\_ No. of \_\_\_\_\_  
stays \_\_\_\_\_ Inner radius of crown \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_  
How connected to shell \_\_\_\_\_ Size of doubling plate under dome \_\_\_\_\_ Diameter of rivet holes \_\_\_\_\_  
of rivets in outer row in dome connection to shell \_\_\_\_\_

Type of Superheater *The R. E. Marine Locomotive Type* Manufacturers of { Tubes *Jalbot Stead.* Headers *Prodingham Steel Co.* Steel castings }  
Number of elements *432* Material of tubes *40 Steel* Internal diameter and thickness of tubes *14 in x 2*  
Material of headers *Forged Steel* Tensile strength *26/30 tons/sq in* Thickness *1 1/2 in* Can the superheater be worked separately *no* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes*  
Area of each safety valve *3.1416 sq in* Are the safety valves fitted with easing gear *yes* Working pressure by Rules *220 lbs/sq in* Pressure to which the safety valves are adjusted *225 lbs/sq in* Hydraulic test *1500 lbs/sq in* Castings *660 lbs/sq in* and after assembly in place *450 lbs/sq in* Are drain cocks fitted to free the superheater from water where necessary *yes*

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

The foregoing is a correct description \_\_\_\_\_

Dates of Survey { During progress of work in shops - - }  
while building { 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.) *Superheaters have now been fitted to all main boilers; the materials and workmanship are good; hydraulic tests satisfactory. See also Report on Form Rpt. 9 herewith.*

Survey Fee ... £ *30 : 0 : 0*

When applied for, *24 JUN 1935* 19 *35*

Travelling Expenses (if any) £ : :

When received, *3-7* 19 *35*

*H. B. Forster.*

Engineer Surveyor to Lloyd's Register

Committee's Minute *TUE. 9 JUL 1935*

Assigned *See other rpt*

*Nov. 92664*



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