

## REPORT ON BOILERS.

56986  
No. 56674

20 MAY 1936

Received at London Office 4 MAR 1936

Date of writing Report 19 When handed in at Local Office 29. 2. 36 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 17. 12. 35 Last Survey 27-2-1936

Reg. Book. (Number of Visits 13) Gross 926

on the S/S "THE PRESIDENT" Tons Net 481

Master Built at Troon By whom built Ailsa SBC & Co Ltd Yard No. 421 When built 1936

Engines made at Troon By whom made Ailsa SBC & Co Ltd Engine No. 156 When made 1936

Boilers made at Glasgow By whom made David Rowan & Co Ltd Boiler No. 415 When made 1936

Nominal Horse Power Owners Port belonging to Glasgow

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel L. Whittles Ltd (Letter for Record (S) ✓)

Total Heating Surface of Boilers 1930 sq ft Is forced draught fitted no ✓ Coal or Oil fired coal ✓

No. and Description of Boilers one single ended Working Pressure 215 ✓

Tested by hydraulic pressure to 373 lb Date of test 25.2.36 No. of Certificate 19678 Can each boiler be worked separately -

Area of Firegrate in each Boiler 59 sq ft No. and Description of safety valves to each boiler

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

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 Is oil fuel carried in the double bottom under boilers

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

Largest internal dia. of boilers 14'-9" Length 10'-9" Shell plates: Material steel Tensile strength 29-33 tons

Thickness 1 25/64 Are the shell plates welded or flanged no Description of riveting: circ. seams {end DR inter. F 3-376 B 4

Long. seams DBS. TR Diameter of rivet holes in {circ. seams F 1 5/16 B 1 7/16 Pitch of rivets {F 3-376 B 4 9 3/4

Percentage of strength of circ. end seams {plate F 61.1 B 64.06 rivets F 45.8 B 46.4 Percentage of strength of circ. intermediate seam {plate 85.25 rivets

Percentage of strength of longitudinal joint {plate 88.6 rivets 88.2 Working pressure of shell by Rules 216.5

Thickness of butt straps {outer 1 7/16 inner 1 3/16 No. and Description of Furnaces in each Boiler Three Deighton 3cft ✓

Material steel Tensile strength 26-30 tons Smallest outside diameter 3'-10 3/8" ✓

Length of plain part {top Thickness of plates {crown 1 1/16 bottom 1 1/16 Description of longitudinal joint welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 217

End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 9/32 Pitch of stays 20" x 17 3/4" ✓

How are stays secured DN Working pressure by Rules 215 ✓

Tube plates: Material {front steel back steel Tensile strength {26-30 tons Thickness {15 1/16 13 1/16

Mean pitch of stay tubes in nests 10.125" Pitch across wide water spaces 14 1/8" Working pressure {front 220 back 233

Girders to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 2 @ 9 5/8" x 7 1/8" Length as per Rule 33.5 Distance apart 10.25" No. and pitch of stays

in each 3 @ 8" Working pressure by Rules 219 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 23/32 Back 1 1/16 Top 23/32 Bottom 1 3/16

Pitch of stays to ditto: Sides 10 1/4" x 8" Back 9 1/4" x 8 1/4" Top 10 1/4" x 8" Are stays fitted with nuts or riveted over nuts ✓

Working pressure by Rules 216 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 1 5/16 Lower back plate: Material steel Tensile strength 26-30 tons Thickness 1 3/16

Pitch of stays at wide water space 13 3/8" Are stays fitted with nuts or riveted over nuts

Working Pressure 218 Main stays: Material steel Tensile strength 28-32 tons

Diameter {At body of stay, 3" No. of threads per inch 6 Area supported by each stay 357 sq in

Over threads Working pressure by Rules 220 Screw stays: Material steel Tensile strength 26-30 tons

Diameter {At turned off part, 1 3/4" No. of threads per inch 9 Area supported by each stay 76.2 sq in



Working pressure by Rules 238 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 17/8"  
No. of threads per inch 9 Area supported by each stay 94.50" Working pressure by Rules 225 lb  
Tubes: Material Steel External diameter { Plain 3 1/4" Thickness { 8 W.S. / 1/4" 9/16 3/8" No. of threads per inch 9  
Pitch of tubes 4 1/2" x 4 3/8" & 4 1/2" x 4 1/2" Working pressure by Rules 230 Manhole compensation: Size of opening  
shell plate 19 1/2" x 15 1/2" Section of compensating ring 10 1/2" x 1 25/64" No. of rivets and diameter of rivet holes 34 @ 1 1/2"  
Outer row rivet pitch at ends 9 3/16" Depth of flange if manhole flanged 3" Steam Dome: Material none  
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. and diameter of  
stays \_\_\_\_\_ Inner radius of crown \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_  
How connected to shell \_\_\_\_\_ Size of doubling plate under dome \_\_\_\_\_ Diameter of rivet holes and pitch  
of rivets in outer row in dome connection to shell \_\_\_\_\_

Type of Superheater none Manufacturers of { Tubes \_\_\_\_\_ 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 \_\_\_\_\_ 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 \_\_\_\_\_, castings \_\_\_\_\_ and after assembly in place \_\_\_\_\_ Are drain cocks or 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,  
For David Rowan & Co. Ltd. Manufacture  
Arch. H. Grierson

Dates of Survey { During progress of work in shops - - - 1935 Dec. 17. 18. 27 (1936) Jan. Are the approved plans of boiler and superheater forwarded herewith yes  
while building { During erection on board vessel - - - 7. 9. 20 Feb. 3. 5. 7. 18. 24. 25. 27 (If not state date of approval.)  
Total No. of visits 13

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. \_\_\_\_\_

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good

The boiler has been constructed under special survey. It will be fitted on board the vessel at Troon.

29/2/36

Survey Fee ... .. £ 12 : 18 :

Travelling Expenses (if any) £ \_\_\_\_\_

When applied for, 23 MAR 1936

When received, 1. 4. 1936

S. J. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 - MAR 1936

Assigned TRANSMIT TO LONDON

GLASGOW 19 MAY 1936

See Gls. Rpt. No. 56986

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