

## REPORT ON BOILERS.

No. 62950

Received at London Office

Date of writing Report

When handed in at Local Office 21. 10. 1940 Port of GLASGOW

No. in  
Reg. Book.

Glasgow

Date, First Survey 23. 10. 39

Last Survey 8th Oct. 1940

on the

M.V. "ARDEYVOHR"

(Number of Visits 18) Gross 5025  
Tons Net 2929

Built at Dumbarton By whom built Wm. Denny & Son. Ltd. Yard No 1347 When built 1940  
Engines made at Glasgow By whom made Barclay Curle & Co. Ltd. Engine No. 127 When made 1940  
Boilers made at do By whom made do Boiler No. 127 When made 1940  
Nominal Horse Power 688 Owners Australind S.S. Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel G. Gilles, Ltd.

(Letter for Record S)

Total Heating Surface of Boilers 2017 sq ft

Is forced draught fitted Yes

Coal or Oil fired Oil

No. and Description of Boilers One single-ended

Working Pressure 120 lb.

Tested by hydraulic pressure to 230 lb. Date of test 1-7-40 No. of Certificate 20600 Can each boiler be worked separately -

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler One 2 1/2" I.H.L. valve

Area of each set of valves per boiler { per Rule 9.30" as fitted 9.80" Pressure to which they are adjusted 120 lb. 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 well clear Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating 3'-4" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 12'-6" Length 11'-9" Shell plates: Material steel Tensile strength 29/33 tons

Thickness 11/16" Are the shell plates welded or flanged no Description of riveting: circ. seams { end middle

long. seams DBS TR Diameter of rivet holes in { circ. seams 25/32" long. seams 25/32" Pitch of rivets { 2 1/2" 5 3/4"

Percentage of strength of circ. end seams { plate 68 rivets 44 Percentage of strength of circ. intermediate seam { plate 86 rivets 90

Percentage of strength of longitudinal joint { plate 86 rivets 90 combined 90

Thickness of butt straps { outer 9/16" inner 11/16" No. and Description of Furnaces in each Boiler 3 Reighton

Material steel Tensile strength 26/30 tons Smallest outside diameter 35 1/4"

Length of plain part { top bottom Thickness of plates { crown 3/8" bottom 3/8" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom -

End plates in steam space: Material steel Tensile strength 26/30 tons Thickness 15/16" Pitch of stays 16 1/2" x 19"

How are stays secured DM

Tube plates: Material { front steel back steel Tensile strength 26/30 tons Thickness 21/32" 5/8"

Mean pitch of stay tubes in nests 9.375" Pitch across wide water spaces 13 1/2"

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

at centre 20 8 3/4" x 9 7/8" Length as per Rule 2'-10 13/16" Distance apart 9 7/8" w 9 3/4" c No. and pitch of stays

in each 3 @ 8 1/4" Combustion chamber plates: Material steel

Tensile strength 26/30 tons Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16"

Pitch of stays to ditto: Sides 8 1/4" x 10 1/2" Back 9" x 9 7/8" Top 8 1/4" x 9 7/8" Are stays fitted with nuts or riveted over nuts

Front plate at bottom: Material steel Tensile strength 26/30 tons

Thickness 21/32" Lower back plate: Material steel Tensile strength 26/30 tons Thickness 21/32"

Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts

Main stays: Material steel Tensile strength 28/32 tons

Diameter { At body of stay, 2 7/8" No. of threads per inch 6

Screw stays: Material steel Tensile strength 26/30 tons

Diameter { At turned off part, 1 1/2" No. of threads per inch 9

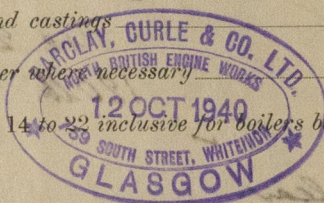
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W161-0146



Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 5/8" or Over threads 1 5/8" }  
No. of threads per inch 9  
Tubes: Material steel External diameter { Plain 2 1/2" Stay 2 1/2" } Thickness { 11 W 9 5/16" + 3/8" } No. of threads per inch 9  
Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening in shell plate 20" x 16" Section of compensating ring 7 1/2" x 1 1/16" No. of rivets and diameter of rivet holes 44 @ 1"  
Outer row rivet pitch at ends 7" 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 \_\_\_\_\_ Thickness of crown \_\_\_\_\_ No. and diameter of stays \_\_\_\_\_ Inner radius of crown \_\_\_\_\_  
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 forgings \_\_\_\_\_ 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 \_\_\_\_\_  
Pressure to which the safety valves are adjusted \_\_\_\_\_ Hydraulic test pressure \_\_\_\_\_  
tubes \_\_\_\_\_ forgings and castings \_\_\_\_\_ and after assembly in place \_\_\_\_\_ Are drain cocks on valves fitted to free the superheater from water when necessary \_\_\_\_\_  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes



The foregoing is a correct description,  
For BARCLAY, CURLE & Co., LTD. Manufacturer  
Alexander Macneil

Dates of Survey { During progress of work in shops - - - 1939 Oct: 23 Nov: 2 Dec: 4 (1940) Jan: 22 Feb: 29 Mar: 19 28 Apr: 12 24 30 May: 16 24 } are the approved plans of boiler and water heater forwarded herewith (If not state date of approval.)  
while building { During erection on board vessel - - - June: 3 10 21 July: 1 11 Oct: 8 } Total No. of visits 18

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.) This boiler has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been satisfactorily installed in the vessel and the safety valves have been adjusted to the working pressure.

906  
19/10/40

Survey Fee ... £ 16 : 16 : - When applied for, 22 OCT 1940  
Travelling Expenses (if any) £ : : When received, 11. 11. 1940

A. J. Brown  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 OCT 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT



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