

## REPORT ON BOILERS.

No. 2821

Received at London Office 28 FEB 1927

Date of writing Report 23<sup>rd</sup> Feb. 1927 When handed in at Local Office 26<sup>th</sup> Feb. 1927 Port of DUNKIRKNo. in Survey held at DUNKIRK Date, First Survey 23<sup>rd</sup> Sept. 1926 Last Survey 21<sup>st</sup> Feb. 1927  
Reg. Book. 62972 on the Steel Se. M.V. ANDRÉ MOYRAND (Number of Visits 10) Tons Gross 2471 Net 1452Built at Dunkirk By whom built Soc. des Mt et Chantiers de France Yard No. 138 When built 1926  
Engines made at Copenhagen By whom made Akt. Burmeister & Wain's Maskin og Skibsbyggeri Engine No. 1222 When made 1925-26  
Boilers made at Annan, Scotland By whom made Messrs Cochran & Co. Annan Ltd. Boiler No. 9710 When made 1925  
Owners Soc. Annan de France et d'Armement Port belonging to Dunkirk

## VERTICAL DONKEY BOILER.

Made at Annan By whom made Cochran &amp; Co. Annan Ltd Boiler No. 9710 When made 1925 Where fixed Bot. Platform

Manufacturers of Steel ✓

Total Heating Surface of Boiler 60 Ø Is forced draught fitted No ✓ Coal or Oil fired Oil fired ✓

No. and Description of Boilers One Cochran Type ✓ Working pressure 100 lbs. p. sq. ✓

Tested by hydraulic pressure to 150 lbs on board Date of test 20<sup>th</sup> November 1926 No. of Certificate 16995

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler Two 1½" Spring loaded

Area of each set of valves per boiler { per rule 7824 sq. in. as fitted 353 sq. in. Pressure to which they are adjusted 100 lbs p. sq. Are they fitted with easing gear yes ✓

State whether steam from main boilers can enter the donkey boiler No main boiler Smallest distance between boiler or uptake and bunkers

or woodwork No bunkers or woodwork oil fuel carried in the double bottom under boiler yes Smallest distance between base of boiler and tank top plating

3'-6" Is the base of the boiler insulated yes Largest internal dia. of boiler ✓ Height ✓

Shell plates: Material ✓ Tensile strength ✓ Thickness ✓

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

Dia. of rivet holes in { circ. seams ✓ long. seams ✓ Pitch of rivets { ✓ Percentage of strength of circ. seams { plate ✓ rivets ✓ of Longitudinal joint { plate ✓ rivets ✓ combined ✓

Working pressure of shell by rules ✓ Thickness of butt straps { outer ✓ inner ✓

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat ✓ Material ✓

Tensile strength ✓ Thickness ✓ Radius ✓ Working pressure by rules ✓

Description of Furnace: Plain, spherical, or dished crown ✓ Material ✓ Tensile strength ✓

Thickness ✓ External diameter { top ✓ bottom ✓ Length as per rule ✓ Working pressure by rules ✓

Pitch of support stays circumferentially ✓ and vertically ✓ Are stays fitted with nuts or riveted over ✓

Diameter of stays over thread ✓ Radius of spherical or dished furnace crown ✓ Working pressure by rule ✓

Thickness of Ogee Ring ✓ Diameter as per rule { D ✓ d ✓ Working pressure by rule ✓

Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓

Radius if dished ✓ Working pressure by rule ✓ Thickness of back plate ✓ Diameter if circular ✓

Length as per rule ✓ Pitch of stays ✓ Are stays fitted with nuts or riveted over ✓

Diameter of stays over thread ✓ Working pressure of back plate by rules ✓

Tube Plates: Material { front ✓ back ✓ Tensile strength { ✓ Thickness { ✓ Mean pitch of stay tubes in nests ✓

If comprising shell, Dia. as per rule { front ✓ back ✓ Pitch in outer vertical rows { ✓ Dia. of tube holes FRONT { stay ✓ plain ✓ BACK { stay ✓ plain ✓

Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules { front ✓ back ✓

Girders to combustion chamber tops: Material ✓ Tensile strength ✓

Depth and thickness of girder at centre ✓ Length as per rule ✓

Distance apart ✓ No. and pitch of stays in each ✓ Working pressure by rule ✓

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**Crown stays:** Material ✓ Tensile strength ✓ Diameter { at body of stay, ✓  
or  
over threads ✓  
No. of threads per inch ✓ Area supported by each stay ✓ Working pressure by rules ✓

**Screw stays:** Material ✓ Tensile strength ✓ Diameter { at turned off part, ✓  
or  
over threads ✓ No. of threads per inch ✓  
Area supported by each stay ✓ Working pressure by rules ✓ Are the stays drilled at the outer ends ✓

**Tubes:** Material ✓ External diameter { plain ✓  
stay ✓ Thickness { ✓  
No. of threads per inch ✓ Pitch of tubes ✓ Working pressure by rules ✓

**Manhole Compensation:** Size of opening in 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 ✓

**Uptake:** External diameter ✓ Thickness of uptake plate ✓

**Cross Tubes:** No. ✓ External diameters { ✓ Thickness of plates ✓

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - ✓  
1926 - 23/9, 22/10, 5/11, 20/11, 6/12, 16/12.  
During erection on board vessel - 1927 - 6/1, 17/2, 21/2.

Copy of Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes  
Total No. of visits 10.

GENERAL REMARKS

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

Please See Glasgow Rpt. 45230  
Returned herewith. This boiler has been satisfactorily fitted on board, the feed  
pumps and Injector Examined under working conditions and found satisfactory,  
the Safety valves adjusted under steam to 100lbs per square inch the  
thickness of washers are F=14.6 $\frac{7}{8}$ , M=11 $\frac{7}{8}$ . The boiler is in good  
and safe working condition, Eligible in my opinion to receive the  
favourable consideration of the Committee and to have the notation D.B.100lbs.  
Copy of the approved boiler tracing is returned herewith.

Survey Fee

£ 521.-

When applied for,

25.2.27

Travelling Expenses (if any) £

When received,

1.4.27

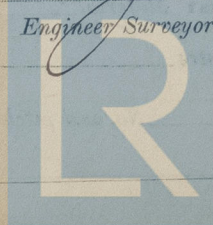
Committee's Minute

FRI. 4 MAR 1927

Assigned

See A.E. attached

John Lighten.  
Engineer Surveyor to Lloyd's Register of Shipping.



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