

REPORT ON BOILERS.

No. 19245

Received at London Office 17 DEC 1930

Date of writing Report 11. 10 1930 When handed in at Local Office 12th DECEMBER 1930 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 1st APRIL 1930 Last Survey 11th DECEMBER 1930

Book. M/S "Adellen" (Number of Visits ☒) Gross Tons ☒ Net

Master Built at Glasgow By whom built Plythwood & Co Ltd Yard No. 30 When built 1930
Engines made at Glasgow By whom made John & Hancock & Co Engine No. 1161 When made 1930
Boilers made at ditto By whom made ditto Boiler No. 1161 When made 1930
Nominal Horse Power Adellen Shipping Co Ltd Port belonging to London

MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY, ~~STEAM~~.

Manufacturers of Steel Usines Metallurgiques Vereinigte Stahlwerke AG (Letter for Record S)

Total Heating Surface of Boilers 3360 Is draught fitted Yes Fuel or Oil fired Oil

No. and Description of Boilers 2 Single Ended Working Pressure 180

Tested by hydraulic pressure to 320 Date of test 8.10.30 No. of Certificate 1979 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 6.462 No. and Description of safety valves to each boiler 2 Blackburn Improved High Lift

Area of each set of valves per boiler 9.81 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 Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2' 6" Is oil fuel carried in the double bottom under boilers Yes

Smallest distance between shell of boiler and tank top plating 18" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 12' 10 3/32" Length 11' 0" Shell plates: Material S Tensile strength 29,33

Thickness 1 1/32" Are the shell plates welded or flanged Yes Description of riveting: circ. seams end inter.

Long. seams TRIBS Diameter of rivet holes in circ. seams 1 1/32" Pitch of rivets 3.525

Percentage of strength of circ. end seams plate 65.9 Percentage of strength of circ. intermediate seam plate 85.5

Percentage of strength of longitudinal joint plate 85.5 Working pressure of shell by Rules 180.5

Thickness of butt straps outer 13/16" inner 15/16" No. and Description of Furnaces in each Boiler 2 Deighton

Material S Tensile strength 26.30 Smallest outside diameter 36 20/32"

Length of plain part top 15/32" Thickness of plates bottom 15/32" Description of longitudinal joint weld

Dimensions of stiffening rings on furnace or c.c. bottom Yes Working pressure of furnace by Rules 182

End plates in steam space: Material S Tensile strength 26.30 Thickness 1 3/32" Pitch of stays 18.16 3/4"

How are stays secured DN Working pressure by Rules 180

Tube plates: Material S Tensile strength 26.30 Thickness 23/32"

Lean pitch of stay tubes in nests 9.79 Pitch across wide water spaces 13 3/4" Working pressure front 181

Orders to combustion chamber tops: Material S Tensile strength 28.32 Depth and thickness of girder back 192

Centre 9 1/2 x 3 1/4" Length as per Rule 3.05 1/8" Distance apart 8 1/4" No. and pitch of stays

Each 3 at 8 1/16" Working pressure by Rules 181 Combustion chamber plates: Material S

Tensile strength 26.30 Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 2 1/32"

Pitch of stays to ditto: Sides 9 1/4 x 1 1/4" Back 8 1/8 x 9 1/2" Top 8 1/4 x 8 1/16" Are stays fitted with nuts or riveted over Yes

Working pressure by Rules 182 Front plate at bottom: Material S Tensile strength 26.30

Thickness 3 1/32" Lower back plate: Material S Tensile strength 26.30 Thickness 2 5/8"

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

Working Pressure 183 Main stays: Material S Tensile strength 28.32

Diameter: At body of stay, 2 3/4" No. of threads per inch 6 Area supported by each stay 306

Working pressure by Rules 182 Screw stays: Material S Tensile strength 26.30

Diameter: At turned off part, 1 5/8" No. of threads per inch 9 Area supported by each stay 83.25

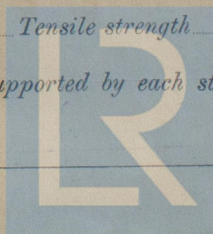
Working pressure by Rules 182

Diameter: At body of stay, 2 3/4" No. of threads per inch 6 Area supported by each stay 306

Working pressure by Rules 182 Screw stays: Material S Tensile strength 26.30

Diameter: At turned off part, 1 5/8" No. of threads per inch 9 Area supported by each stay 83.25

Working pressure by Rules 182



Lloyd's Register Foundation

Working pressure by Rules **204** Are the stays drilled at the outer ends **870** Margin stays: Diameter { At turned off part, **13/4** or Over threads }
 No. of threads per inch **9** Area supported by each stay **99.18** Working pressure by Rules **182**
 Tubes: Material **Iron** External diameter { Plain } **3"** Thickness **9/16"** No. of threads per inch **9**
 Pitch of tubes **4 3/16" x 4 1/4"** Working pressure by Rules **185** Manhole compensation: Size of shell plate **16 x 12** Section of compensating ring **2.10 1/2 x 2.6 1/2 x 1 1/8** No. of rivets and diameter of rivet holes **36 2 1/4**
 Outer row rivet pitch at ends **8 3/16"** Depth of flange if manhole flanged **3 1/2"** 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. and d 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
 Number of elements Material of tubes Manufacturers of Tubes Steel castings
 Material of headers Tensile strength Thickness Can the superheater be sh
 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 press
 Rules Pressure to which the safety valves are adjusted Hydraulic test the Auto
 tubes castings and after assembly in place Are drain cocks or val
 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 JOHN G. KINCAID & CO. LIMITED.
W. C. Carter Director. Man

Dates of Survey { During progress of work in shops - - }
 while building { During erection on board vessel - - - }
 Are the approved plans of boiler forwarded herewith (If not state date of approval.)
 Total No. of visits

Is this Boiler a duplicate of a previous case **Yes** If so, state Vessel's name and Report No. **M¹ "El Mirlo" Enk Ref: 90**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These Boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality and are now securely fitted on board. This Report accompanies that of the Machinery**

Survey Fee **Charged on Machinery Report** When applied for, 19
 Travelling Expenses (if any) £ When received, 19

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute **GLASGOW 16 DEC 1930**

Assigned **See accompanying Machinery Report**

