

# REPORT ON BOILERS.

No. 57606

28 OCT 1936

Received at London Office

Date of writing Report 19 24 10 1936 Port of Glasgow  
 of opening in Glasgow Date, First Survey 7<sup>th</sup> Aug Last Survey 16<sup>th</sup> Oct 1936  
 No. in Survey held at Glasgow (Number of Visits 9) Tons {Gross 323  
 Reg. Book. on the CARRICORNE Boiler No. 936 Net 323  
 Master Built at Renfrew By whom built Lobnitz & Co Yard No. 994 When built 1937  
 Engines made at Non Prop By whom made \_\_\_\_\_ Engine No. \_\_\_\_\_ When made \_\_\_\_\_  
 Boilers made at Glasgow By whom made A. & W. Dalglisk Boiler No. 936 When made 1936  
 Nominal Horse Power \_\_\_\_\_ Owners Enterprise Osude Port belonging to Toulon

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

Manufacturers of Steel Colvilles Ltd. (Letter for Record S)  
 Total Heating Surface of Boilers 1050 <sup>sq</sup> Is forced draught fitted \_\_\_\_\_ Coal or Oil fired \_\_\_\_\_  
 No. and Description of Boilers One single ended cylinder return tube Working Pressure 100 lb.  
 Tested by hydraulic pressure to 200 lb. Date of test 16.10.36 No. of Certificate 19832 Can each boiler be worked separately \_\_\_\_\_  
 Area of Firegrate in each Boiler 37.5 <sup>sq</sup> 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 10' 6" Length 10' 6" Shell plates: Material steel Tensile strength 28-32 tons  
 Thickness 5/8" Are the shell plates welded or flanged No Description of riveting: circ. seams {end D.R. Lap  
 long. seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 15/16" Pitch of rivets {inter. 3"  
 {long. seams 13/16" } 4.25"  
 Percentage of strength of circ. end seams {plate 68.7 rivets 60.5 } Percentage of strength of circ. intermediate seam {plate \_\_\_\_\_ rivets \_\_\_\_\_}  
 Percentage of strength of longitudinal joint {plate 80.8 rivets 90.0 } Working pressure of shell by Rules 116 lb.  
 {combined 92.0 }  
 Thickness of butt straps {outer 9/16" inner 9/16" } No. and Description of Furnaces in each Boiler Two corrugated Deighton Section  
 Material steel Tensile strength 26-30 tons Smallest outside diameter 37 7/8"  
 Length of plain part {top \_\_\_\_\_ bottom \_\_\_\_\_} Thickness of plates {crown 7/16" Description of longitudinal joint Welded  
 {bottom \_\_\_\_\_} Working pressure of furnace by Rules 168 lb.  
 Dimensions of stiffening rings on furnace or c.c. bottom \_\_\_\_\_  
 End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 3/4" Pitch of stays 15" x 15"  
 How are stays secured double nuts and loose washers Working pressure by Rules 126 lb.  
 Tube plates: Material {front steel back \_\_\_\_\_} Tensile strength {\_\_\_\_\_ Thickness {\_\_\_\_\_ 19/32"  
 Mean pitch of stay tubes in nests 10.1" Pitch across wide water spaces 13 1/4" Working pressure {front 109 lb  
 {back 120 lb  
 Girders to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder  
 at centre 6" 2 @ 1/2" Length as per Rule 26.91" Distance apart 7 1/2" No. and pitch of stays  
 in each 2 @ 8 1/2" Working pressure by Rules 115 lb Combustion chamber plates: Material steel  
 Tensile strength 26.30 tons Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/16"  
 Pitch of stays to ditto: Sides 8 1/2" x 8" Back 8 1/2" x 8" Top 7 1/2" x 8 1/2" Are stays fitted with nuts or riveted over Yes  
 Working pressure by Rules 103 lb Front plate at bottom: Material steel Tensile strength 26.30 tons  
 Thickness 3/4" Lower back plate: Material steel Tensile strength 26.30 tons Thickness 3/4"  
 Pitch of stays at wide water space 13" Are stays fitted with nuts or riveted over Yes  
 Working Pressure 142 lb. Main stays: Material steel Tensile strength 28-32 tons  
 Diameter {At body of stay, 2" No. of threads per inch 6 Area supported by each stay 225 sq. inches  
 {Over threads \_\_\_\_\_} Working pressure by Rules 116 lb. Screw stays: Material steel Tensile strength 26-30 tons  
 Diameter {At turned off part, 1 1/4" No. of threads per inch 9 Area supported by each stay 88 sq. inches  
 {Over threads \_\_\_\_\_}

Working pressure by Rules 117 lbs. Are the stays drilled at the outer ends No. Margin stays: Diameter 1 3/8" At turned off part, or Over threads

No. of threads per inch 9 Area supported by each stay 107 sq. inches Working pressure by Rules 100 lbs.

Tubes: Material S.P. Steel External diameter 3 3/4" Thickness 5/16" No. of threads per inch 9 Plain Stay

Pitch of tubes 4 3/8" x 4 5/16" Working pressure by Rules 180 lbs. Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 5/8" No. of rivets and diameter of rivet holes 32 @ 1 5/16"

Outer row rivet pitch at ends 5 5/16" Depth of flange if manhole flanged M. Neil 2 3/4" 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 ✓ 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 Yes

The foregoing is a correct description,  
Arw. Dalglish Manufacturer.

Dates of Survey 1936 Aug. 7, 10, 19, 26 Sep. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 Are the approved plans of boiler and superheater forwarded herewith Yes (If not state date of approval.)

while building 1, 17, 21 Oct. 1, 16 Total No. of visits 9

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 survey in accordance with the Rules and approved plan. The materials and workmanship are good. The boiler is to the order of Messrs. Lobnitz & Co. Renfrew, No. 994. 24/10/36.

Survey Fee ... £ 7 : 0 : 0 When applied for, 10

Travelling Expenses (if any) £ \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ When received, 19

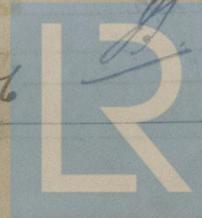
MONTHLY ACCOUNT

CD G. E. Murdoch  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 OCT 1936 GLASGOW 23 MAR 1937

Assigned TRANSMIT TO LONDON

See Glasgow Report No. 58156



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