

REPORT ON BOILERS.

No. 37368

Received at London Office 19 AUG 1936 DEC 1936

of writing Report 10 When handed in at Local Office 15. 8. 36 Port of Glasgow
 Date, First Survey 20. 4. 36 Last Survey 1. 8. 1936
 (Number of Visits 7) Gross 661
 on the new steel 'S/S "CAMEO" CROSSGAR" Tons Net 287
 Built at Glasgow By whom built A & J Inglis Ltd Yard No. 988 When built 1936
 By whom made Crichton Blair Ltd Engine No. When made 1936
 By whom made Davis Rowan & Co Ltd Boiler No. 421 When made 1936
 Owners John Kelly Ltd Port belonging to Belfast
 minial Horse Power

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Lochville Ltd (Letter for Record (S) ✓)
 Heating Surface of Boilers 1834 sq ft ✓ Is forced draught fitted no ✓ Coal or Oil fired coal ✓
 and Description of Boilers one single ended ✓ Working Pressure 200 ✓
 tested by hydraulic pressure to 350 lb Date of test 7. 8. 36 No. of Certificate 19784 Can each boiler be worked separately ✓
 Area of Firegrate in each Boiler 56.4 sq ft No. and Description of safety valves to each boiler ✓
 Area of each set of valves per boiler {per Rule. Pressure to which they are adjusted Are they fitted with easing gear
 as fitted.
 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'-0" ✓ Length 10'-6" ✓ Shell plates: Material steel ✓ Tensile strength 29-33 tons ✓
 Thickness 1 1/4" ✓ Are the shell plates welded or flanged no ✓ Description of riveting: circ. seams {end DR
 inter.
 g. seams D.B.S. T.R. ✓ Diameter of rivet holes in {circ. seams F 1 3/16" B 1 5/16"
 long. seams 1 7/16" Pitch of rivets {F 3.2" B 3.51"
 Percentage of strength of circ. end seams {plate F 62.9 B 63.2
 rivets F 43.8 B 48.2 Percentage of strength of circ. intermediate seam {plate
 rivets
 Percentage of strength of longitudinal joint {plate 85
 rivets 91.5 Working pressure of shell by Rules 202
 combined 88.4
 Thickness of butt straps {outer 6 1/4" 15" ✓ No. and Description of Furnaces in each Boiler Three Deighton ✓
 inner 1 5/8"
 Material steel ✓ Tensile strength 26-30 tons ✓ Smallest outside diameter 42.156"
 Length of plain part {top Thickness of plates {crown 3 3/4" ✓ Description of longitudinal joint welded ✓
 bottom 6 1/4"
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 199
 and plates in steam space: Material steel ✓ Tensile strength 26-30 tons ✓ Thickness 1 3/16" ✓ Pitch of stays 19 3/4" x 16 1/4" ✓
 How are stays secured 19 N ✓ Working pressure by Rules 200
 Tube plates: Material {front steel ✓ Tensile strength 26-30 tons ✓ Thickness {29" 25"
 back " ✓
 Mean pitch of stay tubes in nests 10 3/32" ✓ Pitch across wide water spaces 14 1/4" ✓ Working pressure {front 202
 back 214
 Orders to combustion chamber tops: Material steel ✓ Tensile strength 28-32 tons ✓ Depth and thickness of girder
 centre 2 @ 7 3/4" x 1/8" ✓ Length as per Rule 31.5625 ✓ Distance apart 9" ✓ No. and pitch of stays
 each 2 @ 10" ✓ Working pressure by Rules 204 ✓ Combustion chamber plates: Material steel ✓
 Tensile strength 26-30 tons ✓ Thickness: Sides 23/32" ✓ Back 21/32" ✓ Top 23/32" ✓ Bottom 23/32" ✓
 Pitch of stays to ditto: Sides 9 x 10" ✓ Back 9 1/4 x 8" ✓ Top 9 x 10" ✓ Are stays fitted with nuts or riveted over nuts ✓
 Working pressure by Rules 200 ✓ Front plate at bottom: Material steel ✓ Tensile strength 26-30 tons ✓
 Thickness 29/32" ✓ Lower back plate: Material steel ✓ Tensile strength 26-30 tons ✓ Thickness 25/32" ✓
 Pitch of stays at wide water space 13 1/2" ✓ Are stays fitted with nuts or riveted over nuts ✓
 Working Pressure 200 ✓ Main stays: Material steel ✓ Tensile strength 28-32 tons ✓
 Diameter {At body of stay, 2 3/4" ✓ No. of threads per inch 6 ✓ Area supported by each stay 322 sq in ✓
 Over threads
 Working pressure by Rules 203 ✓ Screw stays: Material steel ✓ Tensile strength 26-30 tons ✓
 Diameter {At turned off part, 1 9/8" 1 3/4" 1 7/8" 2" ✓ No. of threads per inch 9 ✓ Area supported by each stay 74.90, 101.8, 123.0" ✓
 Over threads

Working pressure by Rules 205, 201, 211, 201 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 3/4" or Over threads }
No. of threads per inch 9 Area supported by each stay 90.2 Working pressure by Rules 201
Tubes: Material Steel External diameter { Plain 3 1/4" Stay 3 1/4" } Thickness { 8 W.S. 5/16" & 3/8" } No. of threads per inch 9
Pitch of tubes 4 3/8" x 4 3/8" Working pressure by Rules 230 Manhole compensation: Size of opening in shell plate 19 1/2" x 15 1/2" Section of compensating ring 9 1/2" x 1 5/16" No. of rivets and diameter of rivet holes 34 @ 1 1/4"
Outer row rivet pitch at ends 9 7/8" Depth of flange if manhole flanged 3" Steam Dome: Material none
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes 88P 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. Manufacturer.
Arch. H. Grierson

Dates of Survey { During progress of work in shops - 1936 Apr. 20 May 8-31 June Are the approved plans of boiler and superheater forwarded herewith yes
while building { During erection on board vessel - 2-23 July 6 Aug 7 (If not state date of approval) }
Total No. of visits 7

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.

15/8/36

Survey Fee ... £ 12 : 4 : 0 When applied for, 18 AUG 1936

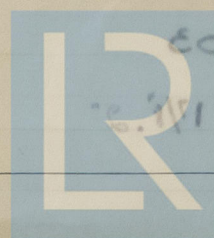
Travelling Expenses (if any) £ : : : When received, 1.9.36

S. C. Dano.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 18 AUG 1936

Assigned TRANSMIT TO LONDON



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