

REPORT ON BOILERS.

No. 49048

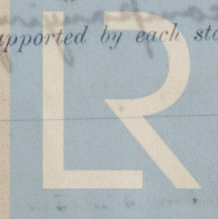
Received at London Office

10 APR 1929

Date of writing Report April 4th 1929 When handed in at Local Office April 8th 1929. Port of GLASGOW.No. in Survey held at Yroon. Date, First Survey 12.1.28 Last Survey April 2nd 1929.
Reg. Book. on the SS. THE VICEROY. (Number of Visits 23) Gross 561 Tons Net 824Master Built at Yroon By whom built Ailsa S.B. Co Ltd Yard No. 404 When built 1929.
Engines made at Yroon By whom made Ailsa S.B. Co Ltd. Engine No. 142 When made 1929.
Boilers made at Glasgow By whom made David Rowan & Co Ltd. Boiler No. 362 When made 1929.
Nominal Horse Power Owners J. Hay and Sons Ltd Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)
Total Heating Surface of Boilers 2021 f Is forced draught fitted No Coal or Oil fired Coal.
No. and Description of Boilers One S.E. Marine Working Pressure 200 lbs^{sq}
Tested by hydraulic pressure to Date of test No. of Certificate 18068 Can each boiler be worked separately
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler One pair of spring loaded valves.
Area of each set of valves per boiler {per Rule 11.44 as fitted 11.86 Pressure to which they are adjusted 200 lbs^{sq} 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 on woodwork 6'-0" Is oil fuel carried in the double bottom under boilers
Smallest distance between shell of boiler and tank top plating Open floors Is the bottom of the boiler insulated No.
Largest internal dia. of boilers Length Shell plates: Material Tensile strength
Thickness Are the shell plates welded or flanged Description of riveting: circ. seams {end inter.
long. seams Diameter of rivet holes in {circ. seams long. seams Pitch of rivets
Percentage of strength of circ. end seams {plate rivets Percentage of strength of circ. intermediate seam {plate rivets
Percentage of strength of longitudinal joint {plate rivets combined Working pressure of shell by Rules
Thickness of butt straps {outer inner No. and Description of Furnaces in each Boiler
Material Tensile strength Smallest outside diameter
Length of plain part {top bottom Thickness of plates {crown bottom Description of longitudinal joint
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules
End plates in steam space: Material Tensile strength Thickness Pitch of stays
How are stays secured Working pressure by Rules
Tube plates: Material {front back Tensile strength Thickness
Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure {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 Rules Combustion chamber plates: Material
Tensile strength Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over
Working pressure by Rules Front plate at bottom: Material Tensile strength
Thickness Lower back plate: Material Tensile strength Thickness
Pitch of stays at wide water space Are stays fitted with nuts or riveted over
Working Pressure Main 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

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Foundation

PILLARS, No. in
Centre Line
Stiffeners
Plating, th
STRINGERS
Uppermost
Stringer P
Thickness in way
Thickness in way
Thickness
If Sheath
Second-D
Stringer
STRAK
FLAT PLATE
DB
BOTTOM PLATE
of Strakes
BILGE PLATING
Strakes
SIDE PLATING
Strakes
UPPER DECK
strake in
UPPER DECK
strake in
STRAKE BEL
strake in
STRAKE BEL
strake in
POOR SIDE P
BRIDGE SIDE
FORECASTLE S
Total No.
MIDSHIP
COLLISION
AFTER P
STEEL

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads
No. of threads per inch Area supported by each stay Working pressure by Rules
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 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 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

The foregoing is a correct description, Manufacturer.
Dates of Survey { During progress of work in shops - - - See Accompanying
while building { During erection on board vessel - - - Machinery Report
Are the approved plans of boiler and superheater forwarded herewith Yes.
(If not state date of approval.)
Total No. of visits 23

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been securely fitted on board and tried under steam with satisfactory results

8/4/29
D. C. Barr
Engineer Surveyor to Lloyd's Register of Shipping.

Survey Fee ... £ : : When applied for, 192
Travelling Expenses (if any) £ ✓ : : When received, 192

Committee's Minute GLASGOW 9 APR 1929
Assigned See Accompanying Machinery Report