

Rpt. 5a.

REPORT ON BOILERS.

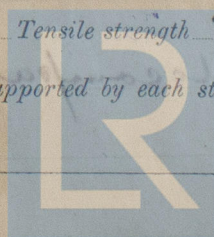
No. 49991

Received at London Office - 1 JAN 1930

Date of writing Report 10 When handed in at Local Office 30.12.29 Port of Glasgow
No. in Reg. Book. Survey held at Glasgow Date, First Survey 10.9.29 Last Survey 24.12.29
on the new steel S/S "SKELDERGATE" (Number of Visits 31) Gross Tons Net
Master Built at Burntisland By whom built Burntisland S B Co Yard No. 159 When built 1930
Engines made at Glasgow By whom made David Rowan & Co Ld Engine No. 927 When made 1930
Boilers made at Glasgow By whom made David Rowan & Co Ld Boiler No. 927 When made 1930
Nominal Horse Power 349 Owners Port belonging to

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Witkowitz Bergbau- und Eisenhütten-Gesellschaft in Witkowitz (Letter for Record S)
Total Heating Surface of Boilers 4686 sq ft Is forced draught fitted no Coal or Oil fired coal
No. and Description of Boilers Two single ended marine Working Pressure 200
Tested by hydraulic pressure to 350 Date of test 13.12.29 No. of Certificate 18550 Can each boiler be worked separately yes
Area of Firegrate in each Boiler 60.50' No. and Description of safety valves to each boiler Two direct spring
Area of each set of valves per boiler (per Rule 13.60" as fitted 14.120" Pressure to which they are adjusted 205 lbs 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 or woodwork 1'6" Is oil fuel carried in the double bottom under boilers no
Smallest distance between shell of boiler and tank top plating 2'6" Is the bottom of the boiler insulated yes
Largest internal dia. of boilers 15'6" Length 11'0" Shell plates: Material steel Tensile strength 29-33 tons
Thickness 1 1/2" Are the shell plates welded or flanged no Description of riveting: circ. seams (end inter. DR
Long. seams WBS.T.R Diameter of rivet holes in (circ. seams F 1 1/16 B 1 3/8 Pitch of rivets F 3.41 B 3.19
Percentage of strength of circ. end seams (plate rivets F 61.5 B 63.7 F 46.8 B 46.3 Percentage of strength of circ. intermediate seam (plate rivets
Percentage of strength of longitudinal joint (plate rivets 85.8 84.5 88.5 Working pressure of shell by Rules 200
Thickness of butt straps (outer inner 1 1/8" No. and Description of Furnaces in each Boiler Three Deighton 30 x 20
Material steel Tensile strength 26-30 tons Smallest outside diameter 3'9 1/2"
Length of plain part (top bottom Thickness of plates (crown bottom 5/8" Description of longitudinal joint welded
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 202
End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 1/2" Pitch of stays 21 1/2" x 9 1/2"
How are stays secured W Working pressure by Rules 201
End plates: Material (front back steel Tensile strength 26-30 tons Thickness 3/32 25/32
Pitch of stay tubes in nests 10'2" Pitch across wide water spaces 14" Working pressure (front back 206 210
Ends to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder
Centre 2 @ 9 x 7/8 Length as per Rule 33.53 Distance apart 9 1/2 No. and pitch of stays
Each 3 @ 8 Working pressure by Rules 205 Combustion chamber plates: Material steel
Tensile strength 26-30 tons Thickness: Sides 1 1/16 Back 1 1/16 Top 1 1/16 Bottom 1 3/16
Pitch of stays to ditto: Sides 8" x 9 1/2 Back 8" x 9 1/2 Top 8" x 9 1/2 Are stays fitted with nuts or riveted over nuts
Working pressure by Rules 214 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 1 3/16
Pitch of stays at wide water space 13 1/2 Are stays fitted with nuts or riveted over nuts
Working Pressure 207 Main stays: Material steel Tensile strength 28-32 tons
Master of Shipping meter (At body of stay, or Over threads 3 1/2 x 3 No. of threads per inch 6 Area supported by each stay 434 & 381 sq in
Working pressure by Rules 214 & 209 Screw stays: Material steel Tensile strength 26-30 tons
meter (At turned off part, or Over threads 1 7/8 No. of threads per inch 9 Area supported by each stay 76 sq in



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Working pressure by Rules 201 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 1 3/4 & 2 1/2
No. of threads per inch 9 Area supported by each stay 91" & 112" Working pressure by Rules 200 & 221
Tubes: Material Iron External diameter { Plain 3 1/4" Thickness 8 w.g. No. of threads per inch 9
Pitch of tubes 4 1/2" x 4 3/8" Working pressure by Rules 230 Manhole compensation: Size of opening
end shell plate 16" x 12" Section of compensating ring flanged No. of rivets and diameter of rivet holes
Outer row rivet pitch at ends - Depth of flange if manhole flanged 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
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 a
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
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 by hyd
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.
Arch. W. Grierson

Dates { During progress of work in shops - - - See Accompanying
of Survey while building { During erection on board vessel - - - Machinery Report
Are the approved plans of boiler and superheater forwarded herewith
Total No. of visits 31

Is this Boiler a duplicate of a previous case 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 boilers have been constructed under special survey in accordance with the
Rules. They have been forwarded to Burntisland to be fitted in the vessel.

These Boilers have been efficiently fitted on board & their
safety valves have been adjusted under steam.

John Houston
Leith 18/2/29

Survey Fee ... £ When applied for, 19
Travelling Expenses (if any) £ When received, 19

Committee's Minute GLASGOW 31 DEC 1929

Assigned See Accompanying Machinery Report

Engineer Surveyor to Lloyd's Register of Shipping

FRI. 28 FEB. 1930

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