

REPORT ON BOILERS.

No. 58156

24

Received at London Office

Date of writing Report 22/3 34 When handed in at Local Office 23. 3. 10 37 Port of Glasgow

No. in Survey held at Renfrew Date, First Survey 28. 10. 36 Last Survey 18. 3. 19 37
Reg. Book. (Number of Visits 5) Tons Gross 323
Net 303

on the non propelled Rock Cutter "Capricorne"

Master _____ Built at Renfrew By whom built Lobnitz 16 Yard No. 994 When built 1937

Engines made at non propelled By whom made _____ Engine No. _____ When made _____

Boilers made at Glasgow By whom made A. W. Dalglish Boiler No. 936 When made _____

Nominal Horse Power _____ Owners Enterprise Osande Port belonging to Toulon

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel See Glasgow Rpt No 57606 (Letter for Record _____)

Total Heating Surface of Boilers 1050 Is forced draught fitted no Coal or Oil fired coal

No. and Description of Boilers 1. SB. Working Pressure 100 lb

Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Can each boiler be worked separately _____

Area of Firegrate in each Boiler _____ No. and Description of safety valves to each boiler 2 - spring loaded

Area of each set of valves per boiler per Rule 11.42" see note at end of report Pressure to which they are adjusted 100 lb Are they fitted with easing gear ye

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 well clear Is oil fuel carried in the double bottom under boilers _____

Smallest distance between shell of boiler and tank top plating well clear of open floor 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 _____ Pitch of rivets inter.
long. seams _____

Percentage of strength of circ. end seams plate _____ Percentage of strength of circ. intermediate seam plate
rivets _____ rivets _____

Percentage of strength of longitudinal joint plate _____ Working pressure of shell by Rules _____
rivets _____ combined _____

Thickness of butt straps outer _____ No. and Description of Furnaces in each Boiler _____
inner _____

Material _____ Tensile strength _____ Smallest outside diameter _____

Length of plain part top _____ Thickness of plates crown _____ Description of longitudinal joint _____
bottom _____ bottom _____

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 _____ Tensile strength _____ Thickness _____
back _____

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, _____ No. of threads per inch _____ Area supported by each stay _____
or _____
Over threads _____

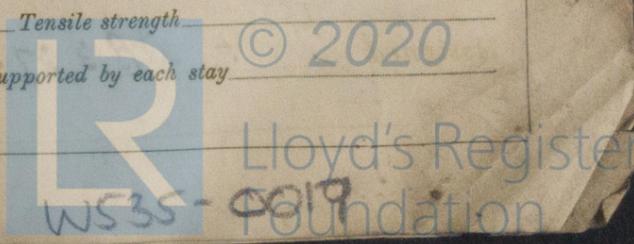
Working pressure by Rules _____ Screw stays: Material _____ Tensile strength _____

Diameter At turned off part, _____ No. of threads per inch _____ Area supported by each stay _____
or _____
Over threads _____

Length.	Water Capacity.
Feet.	Tons.
✓	
✓	F.W.
14	each 40 tons
✓	
✓	
✓	

9377 Jan. 13

No. of Visits 19



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 Thickness No. of threads per inch
Stay Working pressure by Rules Manhole compensation: Size of opening in
 Pitch of tubes Section of compensating ring No. of rivets and diameter of rivet holes
 shell plate Depth of flange if manhole flanged Steam Dome: Material
 Outer row rivet pitch at ends Thickness of shell Description of longitudinal joint
 Tensile strength Pitch of rivets Percentage of strength of joint Plate
Rivets
 Diameter of rivet holes Working pressure by Rules Thickness of crown No. and diameter of
 Internal diameter Inner radius of crown Working pressure by Rules Engines mad
 stays Size of doubling plate under dome Working pressure by Rules Boilers mad
 How connected to shell Diameter of rivet holes and pitch Nominal Ho
 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 - - Are the approved plans of boiler and superheater forwarded herewith Yes
while building During erection on board vessel - - (If not state date of approval.) Yes Rpt No 57606
1936 Oct. 28 Dec. 22 (1937) Jan 12 Total No. of visits 5
Mar. 18

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 boiler reported in Glasgow
Report No 57606 has been properly fitted on board. The safety valves have been
adjusted under steam to 100 lbs per sq. inch, washers 1 1/32" both. These safety valves
were inadvertently ordered 2 at 2 1/2" diam, and left, having a total area
of 9.8 sq. inches against 11.4 sq inches as required by the Rules.
Time would not permit of the valves being replaced before the vessel left in
ton for Mexico-Portugal, but the builders have arranged to send a set of
2 3/4" diam safety valves to the vessel to be fitted on arrival. The Lisbon
Surveyors are being notified. The accumulation on existing safety valves
did not exceed 10%. The boiler is eligible for record of +DBS 3-37 subject to
safety valves of Rule Requirement being fitted and adjusted to work.
March 26 1937. In accordance with London letter E of 25/3/37, the two 2 1/2" diam safety valves
of 25/3/37 now fitted, are accepted and the Boiler is thus eligible for record of +DBS 3-37
without Conditions.

Survey Fee John Boelie 2/2/0 When applied for, 23 MAR 1937
 Travelling Expenses (if any) £ 17.4 When received, 19 37 1914

A. Sutherland
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 MAR 1937
 Assigned + DB 3, 37 - 100lb

Subject A
See Lon. Ltr. 25/3/37

