

Rpt. 5a.

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 GlasgowNo. in Survey held at Renfrew Date, First Survey 28. 10. 36 Last Survey 18. 3. 19 37
Reg. Book. on the non propelled Rock Cutter "Capricorne" (Number of Visits 5) Gross 323
Tons Net 303Master _____ 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. Balglish Boiler No. 936 When made _____
Nominal Horse Power _____ Owners Enterprise Osuade Port belonging to ToulonMULTITUBULAR 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 lbTested 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 loadedArea 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 yes
as fitted 9.8"

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 noLargest 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 {
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 _____al 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 Working pressure by Rules
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
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 Diameter of rivet holes and pitch
How connected to shell Size of doubling plate under dome
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.) No
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 100lb per sq. inch, washers 1/32" both. These safety valves were inadvertently ordered 2 at 2 1/2" diam, ~~ordinarily~~ 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 time 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 2/2/0 When applied for, 23 MAR 1937
Travelling Expenses (if any) £ When received, 17.4 1937 1914

 H. Sutherland

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 MAR 1937

Assigned + DB 3, 37 - 100lb

Subject A See don. br. 25/3/37



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