

REPORT ON BOILERS.

No. 20394

Received at London Office

JUN 30 1937.

Date of writing Report 28.4.37 When handed in at Local Office 26-6-10-37 Port of Greenwich
 No. in Survey held at Greenwich Date, First Survey 19th February 1934 Last Survey 21-6-1937
 Book. 115 "San Bifruano" (Number of Visits ✓) Gross 8000 7966
 Tons Net 4800 4767
 Built at Glasgow By whom built Blythwood & Co Ltd Yard No. 415 When built 1937
 Engines made at Greenwich By whom made John & Kneeland & Co Ltd Engine No. 1798 When made 1937
 Boilers made at ditto By whom made ditto Boiler No. 1798 When made 1937
 Nominal Horse Power 1000 Owners Eagle Oil Shipping Co Ltd Port belonging to London

MULTITUBULAR BOILERS ———, AUXILIARY, ———.

Manufacturers of Steel Bolville Steel Co of Scotland & Glasgow Iron Co. (Letter for Record S ✓)
 Total Heating Surface of Boilers 3380 ✓ Is forced draught fitted Yes Coal or Oil fired Oil ✓
 No. and Description of Boilers 2 Single Ended Dry Back ✓ Working Pressure 180 ✓
 Tested by hydraulic pressure to 320 Date of test 23.4.37 No. of Certificate 2182 Can each boiler be worked separately Yes
 Area of Firegrate in each Boiler Oil Fuel No. and Description of safety valves to each boiler 2 Double Spring ✓
 Area of each set of valves per boiler { per Rule 10.8 ✓ Pressure to which they are adjusted 185 Are they fitted with easing gear Yes ✓
 as fitted 11.8 ✓
 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 17 ✓ Is oil fuel carried in the double bottom under boilers No
 Smallest distance between shell of boiler and tank top plating 24 ✓ Is the bottom of the boiler insulated Yes ✓
 Largest internal dia. of boilers 12'-1" ✓ Length 10'-3" ✓ Shell plates: Material S ✓ Tensile strength 29.33 ✓
 Thickness 1" ✓ Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams { end DR ✓
 long. seams T R O D B S Diameter of rivet holes in { circ. seams 1 1/16" ✓ Pitch of rivets { 3.054 ✓
 { long. seams 1 1/32" ✓
 Percentage of strength of circ. end seams { plate 65.2 ✓ Percentage of strength of circ. intermediate seam { plate ✓
 { rivets 45.6 ✓ { rivets ✓
 Percentage of strength of longitudinal joint { plate 85.25 ✓ Working pressure of shell by Rules 186 ✓
 { rivets 88.6 ✓
 { combined 88.2 ✓
 Thickness of butt straps { outer 3/4" ✓ No. and Description of Furnaces in each Boiler 2 Morrison ✓
 { inner 7/8" ✓ Material S ✓ Tensile strength 26-30 ✓ Smallest outside diameter 3'-4" ✓
 Length of plain part { top ✓ Thickness of plates { crown 1 1/2" ✓ Description of longitudinal joint weld ✓
 { bottom ✓ { bottom ✓
 Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 180 ✓
 End plates in steam space: Material S ✓ Tensile strength 26.30 ✓ Thickness 1 3/8" ✓ Pitch of stays 22 ✓
 How are stays secured D N O Washers ✓ Working pressure by Rules 219 ✓
 Tube plates: Material { front S ✓ Tensile strength { 26.30 ✓ Thickness { 1 5/16" ✓
 { back S ✓ { ✓ { 1 5/16" ✓
 Lean pitch of stay tubes in nests 9.375 ✓ Pitch across wide water spaces 14 1/2" ✓ Working pressure { front 193 ✓
 { 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 ✓
 at 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 S ✓ Tensile strength 26.30 ✓
 Thickness 1 5/16" ✓ Lower back plate: Material S ✓ Tensile strength 26.30 ✓ Thickness 1 5/16" ✓
 Pitch of stays at wide water space 1'-2 1/2" ✓ Are stays fitted with nuts or riveted over ✓
 Working Pressure ✓ Main stays: Material S ✓ Tensile strength 28-32 ✓
 Diameter { At body of stay, 3 3/8" ✓ No. of threads per inch 6 ✓ Area supported by each stay 4 F 4" ✓
 { Over threads ✓ ✓
 Working pressure by Rules 186 ✓ Screw stays: Material ✓ Tensile strength ✓
 Diameter { At turned off part, ✓ No. of threads per inch ✓ Area supported by each stay ✓
 { Over threads ✓ ✓

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 S External diameter ☒ Plain 2 1/2" Thickness ☒ 9 WG 3/8 5/16 No. of threads per inch 9
Pitch of tubes 33 1/4" x 33 1/4" Working pressure by Rules 184 Manhole compensation: Size of opening
shell plate 16 1/2" x 20 1/2" Section of compensating ring 2-10 1/2" x 2.65" x 1/16" No. of rivets and diameter of rivet holes 38 at 1 1/4"
Outer row rivet pitch at ends 8" Depth of flange if manhole flanged 3 1/2" 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
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
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
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
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 JOHN G. KINCAID & CO. LIMITED.

Robert Green Director.

Dates of Survey ☒ During progress of work in shops - -
☒ while building ☒ During erection on board vessel - - -

See Machinery Report

Are the approved plans of boiler and superheater forwarded herewith ☒ Yes
(If not state date of approval.)
Total No. of visits ☒

Is this Boiler a duplicate of a previous case ☒ Yes

If so, state Vessel's name and Report No. "Saul Bait" Repl. # 20318

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality & they have now been securely fitted on board. This Report accompanies that of the Machinery

Survey Fee £ 100
Traveling Expenses (if any) £ 100

When applied for, 19
When received, 19

W. Gordon-Mitchell

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 29 JUN 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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