

REPORT ON BOILERS.

No. 19260.

Received at London Office.

1919 DEC 1950

Report 5th Dec. 1950. When handed in at Local Office 8th Dec. 1950. Port of MIDDLESBROUGH.

Survey held at STOCKTON. Date, First Survey 9th January. Last Survey 30th November 1950.

M/T ISLAS GEORGIAS (Number of Visits 14.)

Built at By whom built Udderall Street Aht. Yard No. 113 When built

By whom made Stockton Chemical Engineers & Riley Boilers. Boiler No. 7209 When made 1950

Owners Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Colvilles Ltd. (Letter for Record)

Surface of Boilers 1518 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil

Description of Boilers 1 single ended multitubular Working Pressure 150 lbs per sq. in.

Hydraulic pressure to 275 lbs Date of test 30.11.50. No. of Certificate 7326 Can each boiler be worked separately

Regulate in each Boiler No. and Description of safety valves to each boiler

Each set of valves per boiler per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

Donkey boilers, state whether steam from main boilers can enter the donkey boiler

Distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Internal dia. of boilers 11'8" Length 11'4" Shell plates: Material Steel Tensile strength 29/33

15/16" Are the shell plates welded or flanged No Description of riveting: circ. seams end DR.L. inter 3.73" 6 1/2"

T.R.D.B.S. Diameter of rivet holes in circ. seams 1.3/16" long. seams 15/16" Pitch of rivets 3.73" 6 1/2"

of strength of circ. end seams plate 68.1 rivets 58.1 Percentage of strength of circ. intermediate seam plate rivets

of strength of longitudinal joint plate 85.6 rivets 97.2 Working pressure of shell by Rules 154 lbs per sq. inch.

of built straps outer 5/8" inner 3/4" No. and Description of Furnaces in each Boiler 2 Morrison

Steel Tensile strength 26/30 tons per sq. in. Smallest outside diameter 3 - 7 1/2"

plain part top Thickness of plates crown 15/32" bottom Description of longitudinal joint welded.

of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 155 lbs per sq. inch.

in steam space: Material steel Tensile strength 26/30 tons Thickness 27/32" Pitch of stays 15" x 12 1/2"

Stays secured double nuts and washers. Working pressure by Rules 167 lbs per sq. inch.

Stays: Material front Steel Tensile strength 26/30 tons/sq. in. Thickness 27/32" back Steel Tensile strength 26/30 " " Thickness 13/16"

of stay tubes in nests 10.9/32" Pitch across wide water spaces 13" Working pressure front 161 lbs/sq. in. back 152 " " "

Combustion chamber tops: Material Steel Tensile strength 26/30 tons/sq. in. Depth and thickness of girder 3 1/2" x 27/32" Length as per Rule 2'6" Distance apart 7 1/2" No. and pitch of stays

Welded dogs Working pressure by Rules 155 lbs/sq. in. Combustion chamber plates: Material Steel

Length 26/30 tons/sq. in. Thickness: Sides 5/8" Back 21/32" Top 5/8" Bottom 5/8"

Stays to ditto: Sides 10" x 8 1/2" Back 10" x 10" Top 10" x 7 1/2" Are stays fitted with nuts or riveted over nuts

Pressure by Rules 150 lbs/sq. in. Front plate at bottom: Material Steel Tensile strength 26/30 tons/sq. in.

27/32" Lower back plate: Material Steel Tensile strength 26/30 tons/sq. in. Thickness 27/32"

Stays at wide water space 13" Are stays fitted with nuts or riveted over nuts

Pressure 151 lbs/sq. in. Main stays: Material Steel Tensile strength 28/32 tons/sq. in.

Body of stay 2 1/4" No. of threads per inch 6 T.P.I. Area supported by each stay 187.5 sq. in.

Pressure by Rules 185 lbs/sq. in. Screw stays: Material Steel Tensile strength 26/30 tons/sq. in.

Turned off part 1 3/4" No. of threads per inch 9 T.P.I. Area supported by each stay 100 sq. in.

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Working pressure by Rules 181 lbs/sq. in. Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 2" or Over threads.....
No. of threads per inch 9 T.P.I. Area supported by each stay 132.25 sq. in. Working pressure by Rules 187 lbs/sq. in.
Tubes: Material HR. Weldless. External diameter { Plain 2 1/2" Thickness { 10 W.C. No. of threads per inch 9
Stay 2 1/2" Pitch of tubes 3 3/4" x 3 1/2" Working pressure by Rules 175 lbs/sq. in. Manhole compensation: 52 rivet
shell plate 21" x 17" Section of compensating ring 6 1/2" x 1" No. of rivets and diameter of rivet holes 52 rivet
Outer row rivet pitch at ends 6 1/2" Depth of flange if manhole flanged dia. 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. of stays.....
stays..... Inner radius of crown..... Working pressure by Rules.....
How connected to shell..... Size of doubling plate under dome..... Diameter of rivets.....
of rivets in outer row in dome connection to shell.....
Type of Superheater..... Manufacturers of..... Tubes.....
Number of elements..... Material of tubes..... External diameter and thickness of tubes.....
Material of headers..... Tensile strength..... Thickness..... Can the superheater be worked separately.....
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 casing gear..... Working pressure.....
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test.....
tubes..... Forgings and castings..... and after assembly in place.....
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.....

Dates of Survey while building { During progress of work in shops - - { 1950. Jan. 9. Feb. 10. May. 12. Aug. 17. 29. Sept. 28. Oct. 12. 18. 24. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval)
During erection on board vessel - - - { Nov. 2. 6. 10. 14. 30. Total No. of visits 14. *A. J. J. J. J.*

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.).....

This boiler has been constructed under Special Survey, or tested material, and in accordance with the Rule Requirements and approved plan.

The materials and workmanship are good and on completion the boiler was hydraulically tested to 275 lbs per sq. inch and found satisfactory.

The boiler is being despatched to Sweden for Uddevallarvet Aktiebolag Ship No. 113.

Survey Fee £ 25 : 6 : - } When applied for 8.12.1950.
Travelling Expenses (if any) £ : : } When received.....19.....

E. Norman Stuart
Engineer Surveyor to Lloyd's Register

FRI, 31 AUG 1951

Committee's Minute.....

Assigned See McInch. F.E. Rep.



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