

REPORT ON BOILERS.

No. 25743.

19 JAN 1948

Received at London Office.

Date of writing Report. 9 Jan 1948 When handed in at Local Office. 9 Jan 1948 Port of BARRY.

No. in Reg. Book. 38151 Survey held at BARRY. Date, First Survey Nov 1947 Last Survey Jan 1948

on the steel screw "Granny Suzanne" ex "Springwave" (Number of Visits.....) Tons { Gross 503 Net 277

Master ✓ Built at Selfzijl By whom built Johs. Berg Yard No. - When built 1918

Engines made at Selfzijl By whom made Johs. Berg Engine No. ✓ When made 1918

Boilers made at Rotterdam By whom made Rotterdamse Droogdok Maatschappij. Boiler No. 264 When made 1931

Nominal Horse Power 67 Owners A. G. Tsavloris Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mannesmannrohren-Verke Abt. Schultz - Knaudt in Huckingen (Letter for Record ✓)

Total Heating Surface of Boilers 1264 sq ft Is forced draught fitted no ✓ Coal or Oil fired coal

No. and Description of Boilers One Multitubular Wet bottom Working Pressure 180# (designed)

Tested by hydraulic pressure to 320# Date of test 16.12.31 No. of Certificate 264 Can each boiler be worked separately ✓

Area of Firegrate in each Boiler 38 sq ft No. and Description of safety valves to each boiler 2 Spring loaded (direct)

Area of each set of valves per boiler { per Rule 8.5 sq in as fitted 14.92 sq in Pressure to which they are adjusted 140# Are they fitted with easing gear yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler none ✓

Smallest distance between boilers or uptakes and bunkers or woodwork 3" (bunker casing) Is oil fuel carried in the double bottom under boilers none

Smallest distance between shell of boiler and tank top plating open floor Is the bottom of the boiler insulated yes ✓

Largest internal dia. of boilers 12 ft Length 10 ft (external) Shell plates: Material Steel Tensile strength 28-32 tons Thickness ✓

Are the shell plates welded or flanged ✓ Description of riveting: circ. seams { end ✓ inter ✓ long. seams { Diameter of rivet holes in { circ. seams ✓ long. seams ✓ Pitch of rivets {

Percentage of strength of circ. end seams { plate ✓ rivets ✓ Percentage of strength of circ. intermediate seam { plate ✓ rivets ✓

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

Thickness of butt straps { outer ✓ inner ✓ No. and Description of Furnaces in each Boiler 2 corrugated (monison)

Material Steel Tensile strength ✓ Smallest outside diameter 3' 9 1/4"

Length of plain part { top ✓ bottom ✓ Thickness of plates { crown 19/32" bottom ✓ Description of longitudinal joint ✓

Dimensions of stiffening rings on furnace or c.g. bottom One top half ring Working pressure of furnace by Rules ✓

End plates in steam space: Material Steel Tensile strength 26-30 tons Thickness ✓ Pitch of stays ✓

How are stays secured Steel Working pressure by Rules 26-30 tons

Tube plates: Material { front Steel back " Tensile strength { ✓ Thickness { ✓

Mean pitch of stay tubes in nests ✓ Pitch across wide water spaces ✓ Working pressure { front ✓ back ✓

Girders to combustion chamber tops: Material Steel Tensile strength 28-32 tons 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 Steel Tensile strength 26-30 tons 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 Steel Tensile strength ✓

Thickness ✓ Lower back plate: Material Steel Tensile strength 26-30 tons Thickness ✓

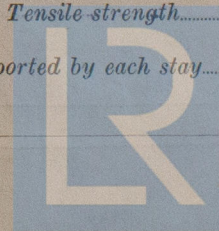
Pitch of stays at wide water space ✓ Are stays fitted with nuts or riveted over ✓

Working pressure ✓ Main stays: Material Steel Tensile strength 28-32 tons

Diameter { At body of stay ✓ or ✓ Over threads ✓ No. of threads per inch ✓ Area supported by each stay ✓

Working pressure by Rules ✓ Screw stays: Material Steel Tensile strength 26-30 tons

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



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Working pressure by Rules. Are the stays drilled at the outer ends *No.* Margin stays: Diameter { At turned off part. or Over threads. No. of threads per inch. Working pressure by Rules. Tubes: Material. External diameter { Plain. Stay. 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 *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 of 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 forgings. 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. forgings and 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,

Dates of Survey while building { During progress of work in shops - - Are the approved plans of boiler and superheater forwarded herewith. (If not state date of approval.) Yes. During erection on board vessel - - Total No. of visits.

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 is not new and it has been examined for Classification as per instructions contained in Secretary's letter "M" 20.10.31. The boiler was built under B.C. Survey and according to the plan was designed for 180#0" W.P. though the test marks stamped on the front end plate indicate 145#0". The test mark is:- B.C. TEST No 5408, 320#0", 145#0" W.P. 16.12.31 (?) (Initials not decipherable). Now examined, placed in good condition and safety valves adjusted under steam, to 140#0"; the W.P. now reduced to accommodate the rule diameter of crankshaft. A certificate issued by L.R. Surveyor at Rotterdam on 15/12/31 would appear to relate to this boiler (No 264), though no LLOYD'S identification mark can be found on the boiler; the certificate is forwarded herewith, for perusal. Please see Barry Rpt No 25743.*

Survey Fee *charged on Rpt 9.* When applied for. 19. Travelling Expenses (if any) £ : : When received. 19.

B. Moffatt.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute. *FRI. 20 FEB 1940*
Assigned. *See F.E. mch. rpt.*