

REPORT ON BOILERS.

No. 19430

Received at London Office

14 APR 1934

Date of writing Report 3-6-31 When handed in at Local Office 13th APRIL 1934 Port of Glasgow

No. in Reg. Book. 111 Glasgow Date, First Survey 16th JULY 1930 Last Survey 12th APRIL 1934

on the S/S "Karabagh" (Number of Visits ✓) Gross Tons ✓ Net Tons ✓

Master Glasgow Built at Glasgow By whom built Blythwood & Co^l Yard No. 32 When built 1931

Engines made at Glasgow By whom made John & McCand. & Co^l Engine No. 1768 When made 1931

Boilers made at ditto By whom made John & McCand. & Co^l Boiler No. 1768 When made 1931

Nominal Horse Power 490 Owners Baltic Trading Co^l Port belonging to London

MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY, ~~MAIN~~.

Manufacturers of Steel Vereenigte Stahlwerke a.g. Steel Co^l of Scotland Letter for Record S ✓

Total Heating Surface of Boilers 2780 ✓ Is forced draught fitted yes Coal or Oil fired oil ✓

No. and Description of Boilers 2 Single Ended ✓ Working Pressure 150 ✓

Tested by hydraulic pressure to 245 ✓ Date of test 24.3.31 No. of Certificate 2009 Can each boiler be worked separately yes ✓

Area of Firegrate in each Boiler Oil fuel ✓ and Description of safety valves to each boiler Cochran's (Double) Improved High Lift ✓

Area of each set of valves per boiler per Rule 6.317 as fitted 7.952 ✓ Pressure to which they are adjusted 155 Are they fitted with easing gear yes ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers or uptakes and bunkers 27" ✓ Is oil fuel carried in the double bottom under boilers no ✓

Smallest distance between shell of boiler and bulk top plating 12" ✓ Is the bottom of the boiler insulated yes ✓

Largest internal dia. of boilers 11-5-2.8 Length 11-6" ✓ Shell plates: Material S ✓ Tensile strength 29.33 ✓

Thickness 25/32" ✓ Are the shell plates welded or flanged ✓ Description of riveting: circ. seams end 3.096 inter. 6 5/8" ✓

long. seams T.R.D.B.S. ✓ Diameter of rivet holes in circ. seams 15/16" long. seams 27/32" ✓ Pitch of rivets 6 5/8" ✓

Percentage of strength of circ. end seams plate 69.6 rivets 45.2 ✓ Percentage of strength of circ. intermediate seam plate 86.2 rivets 86.5 ✓

Percentage of strength of longitudinal joint plate 86.5 combined 89.4 ✓ Working pressure of shell by Rules 152 ✓

Thickness of butt straps outer 5/8" inner 3/4" ✓ No. and Description of Furnaces in each Boiler 2 Deighton's ✓

Material S ✓ Tensile strength 26-30 ✓ Smallest outside diameter 3-27/8" ✓

Length of plain part top bottom ✓ Thickness of plates crown 7/16" bottom 7/16" ✓ Description of longitudinal joint weld ✓

Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 160 ✓

End plates in steam space: Material S ✓ Tensile strength 26-30 ✓ Thickness 15/16" ✓ Pitch of stays 16 3/8" x 15 1/4" ✓

How are stays secured D.N. Washburn ✓ Working pressure by Rules 159 29/32" ✓

Tube plates: Material front S back S ✓ Tensile strength 26-30 ✓ Thickness 11/16" ✓

Mean pitch of stay tubes in nests 10" ✓ Pitch across wide water spaces 13 3/4" ✓ Working pressure front 183 back 164 ✓

Girders to combustion chamber tops: Material S ✓ Tensile strength 29.33 ✓ Depth and thickness of girder at centre 9 x 3 1/4" (2) ✓ Length as per Rule 34.68 ✓ Distance apart 10 1/8" ✓ No. and pitch of stays in each 3 at 8 3/4" ✓ Working pressure by Rules 164 ✓

Combustion chamber plates: Material S ✓ Tensile strength 26-30 ✓ Thickness: Sides 5/8" ✓ Back 5/8" ✓ Top 5/8" ✓ Bottom 5/8" ✓

Pitch of stays to ditto: Sides 8 3/4" x 10" ✓ Back 9 x 9 3/4" ✓ Top 8 3/4" x 10 1/8" ✓ Are stays fitted with nuts or riveted over DN ✓

Working pressure by Rules 153 ✓ Front plate at bottom: Material S ✓ Tensile strength 26-30 ✓

Thickness 29/32" ✓ Lower back plate: Material S ✓ Tensile strength 26-30 ✓ Thickness 13/16" ✓

Pitch of stays at wide water space 14" ✓ Are stays fitted with nuts or riveted over nuts ✓

Working Pressure 194 ✓ Main stays: Material S ✓ Tensile strength 28.32 ✓

Diameter At body of stay, 2 3/8" Over threads ✓ No. of threads per inch 6 ✓ Area supported by each stay 250.6 ✓

Working pressure by Rules 158 ✓ Screw stays: Material S ✓ Tensile strength 26-30 ✓

Diameter At turned off part, 1 5/8" Over threads ✓ No. of threads per inch 9 ✓ Area supported by each stay 84.5 ✓

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Working pressure by Rules 154 Are the stays drilled at the outer ends 970 Margin stays: Diameter { At turned off part, 13/4" or Over threads }
 No. of threads per inch 9 Area supported by each stay 106.68" Working pressure by Rules 169
 Tubes: Material Iron External diameter { Plain 23 1/4" Stay } Thickness 10 WG 5/16" No. of threads per inch 9
 Pitch of tubes 4 1/4" Working pressure by Rules 161 Manhole compensation: Size of opening in shell plate 16 1/2" Section of compensating ring 2.85" 2.45" 15/16" No. of rivets and diameter of rivet holes 38 at 1 1/8"
 Outer row rivet pitch at ends 8" Depth of flange if manhole flanged 3 1/4" 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 Braces }
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays
 How connected to shell Inner radius of crown Working pressure by Rules
 of rivets in outer row in dome connection to shell Size of doubling plate under dome Diameter of rivet holes and pitch

Type of Superheater
 Number of elements Material of tubes Manufacturers of { Tubes Steel castings } 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.
 For JOHN G. KINCAID & CO. LIMITED.
 Director. Manufacturer.

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 (If not state date of approval.)
 Total No. of visits

Yes

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 are now securely fitted on board.
 This Report accompanies List of the Machinery

Survey Fee charged on Madykeft
 Travelling Expenses (if any)

When applied for, 192
 When received, 192

W. London-Michelin

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 17 APR 1934

Assigned

See Jh. J.E. 57783



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