

REPORT ON BOILERS.

No. 10597^{cl.}

Received at London Office 16 MAY 1927

of writing Report 5 May 1927 When handed in at Local Office 1927 Port of AMSTERDAM

in Surrey held at AMSTERDAM Date, First Survey 1/4 1926 Last Survey 3/5 1927 1927

on the Steel Twin Screw Steamer "A L E T T A" (Number of Visits 8) Gross - Net - Tons

Built at Dundee By whom built Caledon Shipb.Co.Ld. Yard No. 308 When built 1927

Engines made at Amsterdam By whom made Werkspoor Engine No. - When made 1927

Boilers made at Amsterdam By whom made Werkspoor Boiler No. - When made 1927

Indicated Horse Power 380 Owners Anglo-Saxon Petroleum Co.Ld. Port belonging to -

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Henschel, John G.m.b.H. & Co. Ruhr. (Letter for Record S.)

Total Heating Surface of Boilers 925 sq. ft. Is forced draught fitted no Coal or Oil fired -

Description of Boilers Horizontal Marine Boilers Working Pressure 150 lb.

Tested by hydraulic pressure to 275 lb. Date of test 2.11.26 No. of Certificate 327 Can each boiler be worked separately L

No. and Description of safety valves to each boiler Two Spring loaded

Pressure to which they are adjusted 150 lb. Are they fitted with easing gear yes

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler L

Least distance between boilers or uptakes and bunkers or woodwork over 18" Is oil fuel carried in the double bottom under boilers L

Least distance between shell of boiler and tank top plating top of tank Is the bottom of the boiler insulated yes

Least internal dia. of boilers 9' 10" Length 9' 8" Shell plates: Material Steel Tensile strength 29-35 tons

Are the shell plates welded or flanged no Description of riveting: circ. seams end inter. -

Diameter of rivet holes in circ. seams 1" long. seams 1" Pitch of rivets 5/8"

Percentage of strength of circ. end seams plate 40% rivets 44% Percentage of strength of circ. intermediate seam plate L rivets L

Percentage of strength of longitudinal joint plate 80.8% rivets 80.5% combined 82% Working pressure of shell by Rules 165 lb.

Thickness of butt straps outer 23/32" inner 21/32" No. and Description of Furnaces in each Boiler 2 Marine

Material Steel Tensile strength 26-30 tons Smallest outside diameter 32 1/2"

Thickness of plates crown 4/16" bottom 4/16" Description of longitudinal joint Welded

Working pressure of furnace by Rules 190 lb.

Plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 15/16" Pitch of stays 15" x 15"

Are stays secured Abt nuts Working pressure by Rules 180 lb.

Plates: Material front Steel back Steel Tensile strength 26-30 tons Thickness 5/16" 3/4"

Pitch of stay tubes in nests 10 1/2" Pitch across wide water spaces 14 1/4" Working pressure front 165 lb. back 180 lb.

Plates to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder -

Length as per Rule 23 1/2" Distance apart 4 1/2" No. and pitch of stays -

Working pressure by Rules 190 lb. Combustion chamber plates: Material Steel

Thickness: Sides 45/64" Back 45/64" Top 45/64" Bottom 45/64"

Are stays fitted with nuts or riveted over with nuts

Front plate at bottom: Material Steel Tensile strength 26-30 tons

Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 15/16"

Are stays fitted with nuts or riveted over with nuts

Main stays: Material Steel Tensile strength 28-32 tons

No. of threads per inch 8 Area supported by each stay 22.5 sq. inch

Screw stays: Material Steel Tensile strength 26-30 tons

No. of threads per inch 11 Area supported by each stay 13.2 sq. inch

Working pressure by Rules $145\frac{1}{2}$ Are the stays drilled at the outer ends $4\frac{1}{2}$ ✓ Margin stays: Diameter $\left\{ \begin{array}{l} \text{At turned off part,} \\ \text{or} \\ \text{Over threads} \end{array} \right. 1\frac{1}{2}$ ✓

No. of threads per inch 11 ✓ Area supported by each stay $81\frac{1}{2}$ sq. inch. Working pressure by Rules $165\frac{1}{2}$

Tubes: Material *Lapwelded iron* External diameter $\left\{ \begin{array}{l} \text{Plain} \\ \text{Stay} \end{array} \right. 2\frac{3}{4}$ ✓ Thickness $5\frac{1}{16}$ ✓ No. of threads per inch 11

Pitch of tubes $5\frac{15}{16} \times 3\frac{15}{16}$ ✓ Working pressure by Rules $215\frac{1}{2}$ Manhole compensation: Size of opening $16\frac{1}{2}$ inch

shell plate $14\frac{1}{2} \times 18\frac{1}{2}$ ✓ Section of compensating ring $16\frac{1}{2}$ inch No. of rivets and diameter of rivet holes $40 - 1\frac{1}{8}$ ✓

Outer row rivet pitch at ends $4\frac{1}{2}$ ✓ Depth of flange if manhole flanged 3 ✓ Steam Dome: Material $<$

Tensile strength $<$ Thickness of shell $<$ Description of longitudinal joint $<$

Diameter of rivet holes $<$ Pitch of rivets $<$ Percentage of strength of joint $\left\{ \begin{array}{l} \text{Plate} \\ \text{Rivets} \end{array} \right. <$

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 of rivets in outer row in dome connection to shell $<$

Type of Superheater *W. Superheater* Manufacturers of $\left\{ \begin{array}{l} \text{Tubes} \\ \text{Steel castings} \end{array} \right. <$

Number of elements $<$ Material of tubes $<$ Internal diameter and thickness of tubes $<$

Material of headers $<$ Tensile strength $<$ Thickness $<$ Can the superheater be shut off from the boiler $<$

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 $<$

tubes $<$ Pressure to which the safety valves are adjusted $<$ Hydraulic test pressure $<$

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 23 inclusive for boilers been complied with $4\frac{1}{2}$ ✓

The foregoing is a correct description,

Dates of Survey $\left\{ \begin{array}{l} \text{During progress of work in shops} \\ \text{while building} \end{array} \right. \left\{ \begin{array}{l} 1/4, 13/4, 9/8, 23/9, 11/10, 2/11, 10/5, 3/5 \\ 19/5, 3/5 \end{array} \right.$

Are the approved plans of boiler and superheater forwarded herewith $1/10/22$ ✓
(If not state date of approval.) *London Office*
Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The boiler has been made under Special License, in accordance with the approved plan and Secretary's letter, material tested as required and workmanship good.

Survey Fee ... $£ 44.40$:

Travelling Expenses (if any) £ :

When applied for, 192

When received, 2/6/192

P. N. Bennett

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

MAY 20 1927

Assigned

See Dan Report attached



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