

# REPORT ON BOILERS.

11 APR 1927

Bel 9717  
No. 90708

8 NOV 1926

Received at London Office

Survey Report No. 8-19 26 When handed in at Local Office 8 NOV 1926 Port of London

Survey held at *Stitchins* Date, First Survey 11<sup>th</sup> OCTOBER 1926 Last Survey Nov. 5<sup>th</sup> 1926

on the *Spencer Bonecourt back Strab Boilers* (Number of Visits 3) Tons Gross Net

*Belfast* By whom built *New-bothman Clark* Yard No. 489 When built 1926

made at *Sundaland* By whom made *W. Stirling Smith* Engine No. 154 When made 1927

made at By whom made Boiler No. When made

*Commonwealth & Dominion Line Ltd.* Port belonging to *London*

*Heating*  
TICAL **DONKEY BOILER.**

*Stitchins* By whom made *New-bothman Clark* No. 6004 When made 1926 Where fixed

Manufacturers of Steel *Guest Keen & Nealefield*

Heating Surface of Boiler 282  $\pi$  Is forced draught fitted *no* Coal or Oil fired *Waste-gas*

General Description of Boilers *One Spencer Bonecourt Kirk Patrick* Working pressure 180  $\frac{lb}{sq. in.}$

by hydraulic pressure to 200  $\frac{lb}{sq. in.}$  Date of test Nov. 5<sup>th</sup> 1926 No. of Certificate 1301

of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 Cockburn's Spring

of each set of valves per boiler { per rule 3.50" as fitted 3.50" Pressure to which they are adjusted 100  $\frac{lb}{sq. in.}$  Are they fitted with easing gear *yes*

Whether steam from main boilers can enter the donkey boiler *yes* Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler *yes* Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated *yes* Largest internal dia. of boiler 3  $\frac{1}{2}$  ft Height 9  $\frac{1}{2}$  ft

plates: Material *Steel* Tensile strength Thickness 3  $\frac{1}{8}$  & 1  $\frac{1}{2}$  "

the shell plates welded or flanged *no* Description of riveting: circ. seams { end *SR* inter *SR* long. seams *B.R. Lap*

of rivet holes in { circ. seams 13/16 Pitch of rivets { 17/8 22/32 Percentage of strength of circ. seams { plate 58.7 rivets 60.5 of Longitudinal joint { plate 69.5 rivets 88.5 combined

Working pressure of shell by rules 170 Thickness of butt straps { outer inner

Crown: Whether complete hemisphere, dished partial spherical, or flat Material

Strength Thickness Radius Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

External diameter { top bottom Length as per rule Working pressure by rules

of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Radius of spherical or dished furnace crown Working pressure by rule

Thickness of Ogee Ring Diameter as per rule { D d Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Working pressure by rule Thickness of back plate Diameter if circular

Pitch of stays Are stays fitted with nuts or riveted over

Working pressure of back plate by rules

Plates: Material { front *Steel* back Tensile strength Thickness { 3  $\frac{1}{8}$  Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay *2  $\frac{1}{4}$*  BACK { stay plain 2"

Working pressure by rules { front 100 back 100

each alternate tube in outer vertical rows a stay tube *yes*

Stays to combustion chamber tops: Material Tensile strength

Length as per rule Working pressure by rule

No. and pitch of stays in each



Crown stays: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ 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 \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at turned off part, \_\_\_\_\_ or \_\_\_\_\_ over threads \_\_\_\_\_ No. of threads per inch \_\_\_\_\_

Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_

Tubes: Material Steel External diameter { plain 2" Swelled to 2 1/4" Thickness { 10 lbs. ✓

No. of threads per inch \_\_\_\_\_ Pitch of tubes 3 x 3" Working pressure by rules 100 lbs.

Manhole Compensation: Size of opening in shell plate 14 x 11 ✓ Section of compensating ring 24 x 21 ✓ No. of rivets and diameter of rivet holes 24 - 13/16 ✓ Outer row rivet pitch at ends 5" ✓ Depth of flange if manhole flanged \_\_\_\_\_

Uptake: External diameter \_\_\_\_\_ Thickness of uptake plate \_\_\_\_\_

Cross Tubes: No. \_\_\_\_\_ External diameters { \_\_\_\_\_ Thickness of plates \_\_\_\_\_

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with No

The foregoing is a correct description.  
SPENCER-BONECOURT LTD.

*N. Jackson*

Manufacturer.

Dates of Survey { During progress of work in shops - - } 1926 - Oct. 11. 21. Nov 5.  
while building { During erection on board vessel - - }

Is the approved plan of boiler forwarded herewith (If not state date of approval.) No

Total No. of visits 3

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

This Boiler has been built under Special Survey in accordance with the plan & the British Rules. The Steel used in its construction has been tested according to the Rules.

The workmanship is good.

Upon completion the Boiler was tested by hydraulic pressure to 200 lbs per sq. inch and showed no sign of weakness or defect.

The Boiler is stamped.

No. 1301

Hyd. test

200 lbs

WP. 100 lbs

S.P.C. 5. 11. 26.

This boiler has been efficiently installed centrally on an upper deck at the forward end of the engine room. The safety valves have been adjusted under steam to 100 lbs sq. inch. Boring jet is fitted. In my opinion the boiler is eligible for a classed vessel.

*R. Lee Amess.*

Survey Fee ... £ 4 4 9 When applied for, -8 NOV 1926  
Travelling Expenses (if any) £ 2 11 0 When received, 16th Nov. 1926.

Committee's Minute

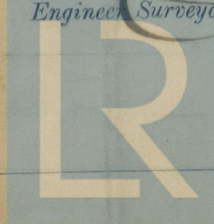
Assigned

TOES. 12 APR 1927

*Dec - Bel. Rpt. 9717*

*H. P. Cornish*

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation