

REPORT ON BOILERS.

Sld. No. 29318

Lon. No. 90,545

-4 NOV 1926

Received at London Office

Date of writing Report 1 OCT. 1928 When handed in at Local Office 19

Port of London

No. in Survey held at
Reg. Book.

Stitchin

Date, First Survey

4th September

Last Survey

27th September 1926on the Spencer-Bonecourt Wash Heat Boilers No. 5821
M.V. SILVERBEECH

(Number of Visits 4)

Gross 5311
Net 3096

Built at Sunderland

By whom built Sir J. Laing & Sons Ltd

Yard No. 895

When built 1926

Engines made at do

By whom made Messrs Oxford & Sons

Engine No. C158

When made 1926

Boilers made at

By whom made

Boiler No.

When made

Owners

Silver Line

Port belonging to

London

VERTICAL DONKEY BOILER.

Made at Stitchin By whom made Spencer-Bonecourt Boiler No. 5821 When made 1926 Where fixed at top of ship

Manufacturers of Steel Stewart & Lloyds & Laid, Forge.

Total Heating Surface of Boiler 143 sq

Is forced draught fitted

Coal or Oil fired Wash Heat

No. and Description of Boilers The Spencer-Bonecourt - Kirk's Patent

Working pressure 100 lb

Tested by hydraulic pressure to 200 lb per sq

Date of test

27-9-26

No. of Certificate 1200

Area of Firegrate in each Boiler 143

No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler { per rule 3.5 sq
as fitted 3.5 sq

Pressure to which they are adjusted 105 lb

Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler No

Smallest distance between boiler or uptake and bunkers

or woodwork Is oil fuel carried in the double bottom under boiler No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated open ended

Largest internal dia. of boiler 3 ft

Height 6' 9"

Shell plates: Material Steel

Tensile strength 28-32

Thickness 3/4 - 9/16

Are the shell plates welded or flanged No

Description of riveting: circ. seams { end SR
inter SR

long. seams SR

Dia. of rivet holes in { circ. seams 13/16
long. seams 13/16Pitch of rivets { 2-
2 1/2Percentage of strength of circ. seams { plate 59.3
rivets 55.7of Longitudinal joint { plate 58.4
rivets 84.2
combined

Working pressure of shell by rules 150

Thickness of butt straps { outer
inner

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

Material

Tensile strength

Thickness

Radius

Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter { top
bottom

Length as per rule

Working pressure by rules

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

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

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material { front Steel
back

Tensile strength { 28-32

Thickness { 5/8

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule { front
back

Pitch in outer vertical rows {

Dia. of tube holes FRONT { stay
plain 2 1/4BACK { stay
plain 2

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules { front 150
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule

W1157-0040

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Foundation

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" small 6*
_____ *2 3/4"* Thickness { *18 lbs.*

No. of threads per inch _____ Pitch of tubes *3 x 3* Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate *14 x 11* Section of compensating ring *24 x 21 x 7/16* No. of rivets and diameter

of rivet holes *24 x 13/16* Outer row rivet pitch at ends *5 3/8* 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 _____

The foregoing is a correct description,
SPENCER-BONECOURT LTD.
H. Jackson. Manufacturer.

Dates of Survey { During progress of work in shops - *1926 SEP 7.13.15.27*
while building { During erection on board vessel - _____

Is the approved plan of boiler forwarded herewith _____
(If not state date of approval.) *See note no 5420 Aug 3-1926*

Total No. of visits *4*

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 Society's Rules.

The workmanship is good. The material has been tested according to the Rules.

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

The boiler is stamped. — No. 1300

Class 2nd 200 lbs

1st 100 lbs

27-9-26 H.P.C.

This boiler has been satisfactorily fitted in the vessel & the safety valves adjusted under steam to the pressure stated on the plan for notation see machinery report.

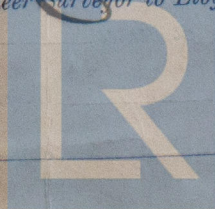
Survey Fee ... £ *4 : 4* : } When applied for, *1 OCT 1926*

Travelling Expenses (if any) £ *1 - : 15 - 10* } When received, *11 Oct 1926*

Committee's Minute *FRI 5 NOV 1926*

Assigned *See J. Expt attached*

H. F. Conish
Engineer Surveyor to Lloyd's Register of Shipping.



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