

REPORT ON BOILERS.

Std. No. 29312

Lon No. 90342

30 SEP. 1926

Date of writing Report

Aug 3rd 1926

When handed in at Local Office

8 AUG. 1926

Port of

London

No. in
Reg. Book.

Survey held at

Hitchin

Date, First Survey

July 7th

Last Survey

July 30th 1926

on the

M. S.M. "SILVERASH"
Spencer Bonecourt Works Strat Boiler No. 5820

(Number of Visits 4)

Gross

5299

Tons

Net 5091

Built at

Sunderland

By whom built

J. L. Thompson & Sons Ltd

Yard No.

555

When built

1926

Engines made at

Sunderland

By whom made

(Wm. Duxford & Son)

Engine No.

(157)

When made

1926

Boilers made at

Hitchin

By whom made

Spencer Bonecourt & Co.

Boiler No.

5820

When made

1926

Owners

Silver Line, Ltd.

Port belonging to

London

VERTICAL DONKEY BOILER.

Made at

Hitchin

By whom made

Spencer Bonecourt & Co.

Boiler No.

5820

When made

1926

Where fixed *on exhaust manifold above top grate*

Manufacturers of Steel

The Leeds Forge Co. - Stewart & Lloyd

Total Heating Surface of Boiler

143 sq ft

Is forced draught fitted

✓

Coal or Oil fired

Waste Heat

No. and Description of Boilers

One, Spencer Bonecourt, Kirk's Patent

Working pressure

100

Tested by hydraulic pressure to

200 lbs

Date of test

30-7-26

No. of Certificate

1299

Area of Firegrate in each Boiler

Nil.

No. and Description of safety valves to each boiler

2 Spring loaded.

Area of each set of valves per boiler

per rule 3.50

Pressure to which they are adjusted

105 lbs

Are they fitted with easing gear

Yes

State whether steam from *aux* ~~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

—

Smallest distance between base of boiler and tank top plating

✓

Is the base of the boiler insulated

Waste Heat

Largest internal dia. of boiler

3 ft

Height

6'-9"

Shell plates: Material

Steel

Tensile strength

28-32

Thickness

3/8

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end. CR

inter. CR

long. seams

5R lap

Dia. of rivet holes in

circ. seams 13/16

Pitch of rivets

2"

Percentage of strength of circ. seams

plate 59.3

rivets 55.7

of 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

Tensile strength

28-32

Thickness

3/8

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 1/8

BACK

stay

plain

2"

Is each alternate tube in outer vertical rows a stay tube

✓

Working pressure by rules

front

back

150

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

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"* or drilled *5 2/3"* Thickness { *10 lbs.*

No. of threads per inch _____ Pitch of tubes *3" x 3"* Working pressure by rules *100*

Manhole Compensation: Size of opening in shell plate *14 x 11 + 13 x 10* Section of compensating ring *24 x 21 x 9/16" x 1/2"* No. of rivets and diameter of rivet holes *24 x 13/16* Outer row rivet pitch at ends *5 3/4* 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,

A. G. F. Finner Manufacturer.

Dates of Survey { During progress of work in shops - *July 7, 19, 21, 30.* 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 *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 and the Society's Rules.

The workmanship is good. The material has been tested in per Rule. 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. 1299.

Hydro test 200 lbs.

wp. 100 lbs.

30-7-26 H.P.C.

This boiler has been satisfactorily fitted in the vessel & the safety valves adjusted under steam to the pressure stated below for initiation see machinery report

Survey Fee ... £ *4 : 4* :

Travelling Expenses (if any) £ *2 : 11* :

When applied for, *6. 8. 19 26*

When received, *11. 8. 19 26*

J. H. F. Finner
J. H. Finner

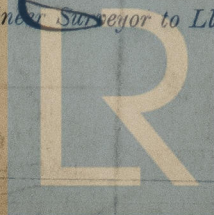
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 5 OCT 1926*

Assigned *see minute on*

TUES. 15 NOV 1927

Sta F. E. Rpt 29312



Lloyd's Register Foundation