

REPORT ON BOILERS.

 Ser. No. 29458
 Lon No. 91315

Received at London Office

23 JUN 1927

Date of writing Report 25 APL 1927

When handed in at Local Office

25 APL 1927

Port of

London

No. in Survey held at

Date, First Survey

13th SEPTEMBER 1926

Last Survey

March 2nd 1927

Reg. Book.

MOTOR V. "SILVER GUAVA"

(Number of Visits)

3

Tons

Gross

5294

Net

3088

on the Spencer-Rosenberg Back Heat Boiler No. 5822

for Wm. Dwyer & Sons

Built at Sunderland

By whom built

Li. James Lamb & Co. Ltd.

Yard No. 896

When built 1927

Engines made at

Sunderland

By whom made

Wm. Dwyer & Sons Ltd.

Engine No. 159

When made 1927

Boilers made at

By whom made

Boiler No.

When made

Owners

Silver Line Ltd.

Port belonging to

London

VERTICAL DONKEY BOILER.

Made at *Waste Heat* *Stitching* By whom made *Spencer-Rosenberg* Boiler No. 5822 When made 1927 Where fixed *Engine Room*Manufacturers of Steel *South Durham Steel & I. Co.*

Total Heating Surface of Boiler

143 sq ft

Is forced draught fitted

Coal or Oil fired

Back Heat

No. and Description of Boilers

One Kirk's Patent

Working pressure

100 lb/sq in

Tested by hydraulic pressure to

200 lb/sq in

Date of test

30-3-27

No. of Certificate

1308

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**as fitted 3.50*

Pressure to which they are adjusted

105 lb/sq in

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

No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Waste heat open ended

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**LR*

long. seams

LR

Dia. of rivet holes in

circ. seams 13/16

Pitch of rivets

2 1/2

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

26-30

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 1/2*

BACK

*stay**plain 2*

Is each alternate tube in outer vertical rows a stay tube

No

Working pressure by rules

*front**back**100*

Girders to combustion chamber tops: Material

Tensile strength

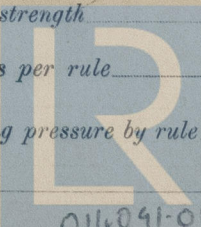
Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule



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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" S.W.G.* or *5 2 1/8"* Thickness { *11 S.W.G.*
 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 9/16* No. of rivets and diameter _____
 of rivet holes *24 - 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 *Yes*

SPENCER-HOPWOOD, LTD.

The foregoing is a correct description,

J. P. Bradley

Manufacturer.

WORKS MANAGER.

Dates of Survey { During progress of work in shops - *1926 - SEP 13*
 while building { During erection on board vessel - *1927 - MAR 21. 30.*

Is the approved plan of boiler forwarded herewith *Yes* (If not state date of approval) *Plan with No. 1308 Aug. 3 - 1927*
 Total No. of visits *3 (In Steps)*

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. inch and showed no weakness or sign of defect.

The Boiler is stamped: - No. 1308

Hydro test 200 lbs

W.P. 100 lbs.

30.3.27 H.P.C.

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

Survey Fee ... £ *4 : 4 : -*
 Travelling Expenses (if any) £ *1 : 15 - 10*

When applied for, *25 APR 1927*
 When received, *-4 MAY 1927*

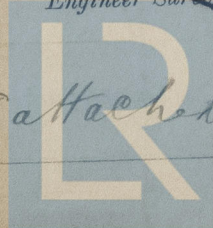
H. P. Smith

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUES. 28 JUN 1927

See Sta. P.O. apt No 29438 attached



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