

## REPORT ON BOILERS.

Sld. No. 29510.

No. 91567

of existing Report 27 JUN 1927

Received at London Office 27 JUN 1927

When handed in at Local Office 27 JUN 1927

Port of London

17 SEP 1927

in Survey held at

Hitchin

Date, First Survey 31<sup>st</sup> May 1927Last Survey June 23<sup>rd</sup> 1927

Boat

M.V. "SILVER HAZEL"

(Number of Visits 3)

Gross 5302  
Net 5091

113 on the

Humberland

By whom built J.L. Thompson &amp; Sons Ltd.

Yard No. 557

When built 1927

s made at

do

By whom made Wm. Bradford &amp; Sons

Engine No. 167-162

When made 1927

made at

Silver Line Ltd.

By whom made

Boiler No.

When made

Port belonging to London

RETAIN

## DONKEY BOILER.

Hitchin

By whom made Messrs. Howard &amp; Co.

Boiler No. 5824

When made 1927

Where fixed Engine Room

makers of Steel

Messrs. Howard &amp; Co.

ating Surface of Boiler

143 ft

Is forced draught fitted

Description of Boilers

McC. Kirk's patent

Coal or Oil fired Waste Heat

hydraulic pressure to

200 lbs.

Date of test

23-6-27

Working pressure 100 lbs.

Firegrate in each Boiler

No. and Description of safety valves to each boiler

No. of Certificate 1317

Each set of valves per boiler

per rule 3.50

as fitted 3.50

Pressure to which they are adjusted

2 Spring loaded

steam from main boilers can enter the donkey boiler

No

Are they fitted with easing gear Yes

Is oil fuel carried in the double bottom under boiler

Waste Heat

Is the base of the boiler insulated

Yes

Smallest distance between boiler or uptake and bunkers

Material

Steel

Largest internal dia. of boiler

3 ft

Height 6'-9"

plates welded or flanged

No

Description of riveting: circ. seams

end S.R.

Thickness 3/4"

holes in

Pitch of rivets

2"

Percentage of strength of circ. seams

plate 59.3

rivets 55.7

of Longitudinal joint

plate 59.4

rivets 54.2

combined

Pressure of shell by rules

150

Whether complete hemisphere, dished partial spherical, or flat

Thickness

Material

Radius

Working pressure by rules

of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

External diameter

Length as per rule

Working pressure by rules

stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

Dished Ring

Diameter as per rule

D

Working pressure by rule

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

Material

Tensile strength

24-32

Thickness

7/8"

Mean pitch of stay tubes in nests

Dia. as per rule

Pitch in outer vertical rows

front

back

Dia. of tube holes FRONT

stay

plain

2 1/2"

BACK

stay

plain

2"

tube in outer vertical rows a stay tube

Chamber tops: Material

Working pressure by rules

front

back

Pitch of girder at centre

Tensile strength

Length as per rule

Working pressure by rule

No. and pitch of stays in each

L

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Foundation

W475-0192



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" welded  
or 2 1/4" ✓ Thickness { 10.25 ✓

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 - 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. Bradley

Manufacturer.

WORKS MANAGER

Dates of Survey { During progress of work in shops - 1927 May 31 June 14 23  
while building { During erection on board vessel - -

Is the approved plan of boiler forwarded herewith Yes  
(If not state date of approval) plus with 5820  
Total No. of visits 3 (2 in Shop) 1 Silverash

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

This boiler has been built under Special Survey in accordance with the plan of the Society's 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 signs of weakness or defect.

Mark on boiler: -

No. 1317

Under test 200 lbs.

WT. 100 lbs.

23-6-27 H.P.C.

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

Survey Fee ... £ 4 : 4 :  
Travelling Expenses (if any) £ 1 : 0 : 2

When applied for, \_\_\_\_\_

When received, \_\_\_\_\_

27 JUN 1927

20 JULY 1927

Barbottle

H.P. Cornish

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 23 SEP 1927

Assigned

See Sla Sept No 25910



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