

REPORT ON BOILERS.

No. 4956

Received at London Office

JUL 5 1938

Date of writing Report 1-7-1938 When handed in at Local Office 4-7-1938 Port of Sheffield.

No. in
Reg. Book

Survey held at

Loughborough.

Date, First Survey

23-2-38.

Last Survey

30th June 1938

on the

M/S "Venezuela"

(Number of Visits 4)

Gross
Tons

Net

Built at

By whom built

Yard No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

Loughborough.

By whom made Walter W. Coltman & Co. Ltd.

Boiler No. 6262.

When made 1938

Owners

A/B Gotaverken 2305-P. M/S 530.

Port belonging to

VERTICAL DONKEY BOILER.

Made at Loughborough By whom made Walter W. Coltman & Co. Ltd. Boiler No. 6262. When made 1938 Where fixed

Manufacturers of Steel Park Gate Iron & Steel Co. Ltd. & Appleby - Frodingham Steel Co. Ltd.

Total Heating Surface of Boiler

155 sq ft

Is forced draught fitted

No

Coal or Oil fired

oil

No. and Description of Boilers

One off Vertical Cross Tube.

Working pressure

85 lbs sq in

Tested by hydraulic pressure to

170 lbs sq in

Date of test

30th June 1938.

No. of Certificate

604.

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

One, 2 1/2" Double Spring Marine Type.

Area of each set of valves per boiler

per rule 3.54 sq ft
as fitted 9.82 sq ft

Pressure to which they are adjusted Not adjusted. Are they fitted with easing gear

Yes.

State whether steam from main boilers can enter the donkey boiler

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

Largest internal dia. of boiler

5'-0"

Height

13'-8"

Shell plates: Material

S.M. Steel.

Tensile strength

26-30 Tons sq in

Thickness

7/16"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end Single
inter Single

long. seams

Double, Lap.

Dia. of rivet holes in

circ. seams 13/16"
long. seams 13/16"

Pitch of rivets

2"
 25/8"

Percentage of strength of circ. seams

plate 59
rivets 47

of Longitudinal joint

plate 69
rivets 72
combined

Working pressure of shell by rules

133 lbs sq in

Thickness of butt straps

outer
inner

Shell Crown:

Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical.

Material

S.M. Steel.

Tensile strength

26-30 Tons sq in

Thickness

9/16"

Radius

60"

Working pressure by rules

110 lbs sq in

Description of Furnace:

Plain, spherical, or dished crown Dished.

Material

S.M. Steel.

Tensile strength

26-30 Tons sq in

Thickness

1/2"

External diameter

top 51"
bottom 53"

Length as per rule

78"

Working pressure by rules

107 lbs sq in

Pitch of support stays circumferentially

7"

and vertically

26 1/2"

Are stays fitted with nuts or riveted over

Yes.

Diameter of stays over thread

1"

Radius of spherical or dished furnace crown

51"

Working pressure by rule

102 lbs sq in

Thickness of Ogee Ring

Diameter as per rule

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
back

Tensile strength

Thickness

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

BACK

stay
plain

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules

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

Lloyd's Register

W1178-0111

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 ☒ External diameter ☒ plain ☒ stay ☒ Thickness ☒
 No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate $16" \times 12"$ Section of compensating ring $6" \times \frac{7}{16}"$ No. of rivets and diameter of rivet holes $42 - \frac{13}{16}"$ Outer row rivet pitch at ends $5\frac{1}{2}"$ Depth of flange if manhole flanged ☒

Uptake: External diameter $16"$ Thickness of uptake plate $\frac{9}{16}"$

Cross Tubes: No. 4 External diameters $10"$ Thickness of plates $\frac{3}{8}"$

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ☒ **YES.**

The foregoing is a correct description.
 PER PRO. WALTER W. COLLIMAN & CO.

W. W. Colliman Manufacturer.
 Director.

Dates of Survey ☒ During progress of work in shops - $23-2-38, 7-4-38, 13-6-38, 30-6-38$ Is the approved plan of boiler forwarded herewith No. $20-7-38$ (If not state date of approval.) ☒ See also as built plan herewith.
☒ During erection on board vessel - Total No. of visits 4

Is this Boiler a duplicate of a previous case ☒ **YES.** If so, state Vessel's name and Reports No. $452, 472, 476, \text{Sheffield}, 519$.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boiler described above (together with its mountings) has been constructed under Special Survey of tested materials. The finished boiler agrees with the approved plan & has been tested to 170 lbs. \square " with satisfactory results.*

For identification the boiler has been marked above the fire hole:-

LLOYD'S TEST.
NR 604.
170 LBS. \square "
85 LBS. \square " WP.
W.K. 30-6-38. W

Survey Fee ... £ $4 : 4$: When applied for, $4-7-$ 19 38
 Travelling Expenses (if any) £ $1 : 10$: When received, $30-8$ 19 39

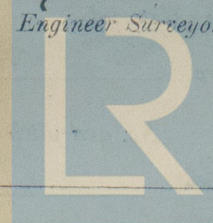
Committee's Minute

Assigned

TUE 7 FEB 1939

See fol. 26. 12206

W. W. Colliman
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
 Foundation