

## REPORT ON BOILERS.

No. 10355.

Received at London Office

Date of writing Report 4<sup>th</sup> October 1937 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Slaskov Date, First Survey 16<sup>th</sup> August Last Survey 28<sup>th</sup> September 1937

Reg. Book Slaskov (Number of Visits 12) Gross 5965.14

on the Single Screw Motor Vessel "FLEX VAN OPSTAL" Tons Net 3446.93

Built at Slaskov By whom built Slaskov Skibsverft Yard No. 80 When built 1937

Engines made at Copenhagen By whom made Abt. Bunnister & Wain Engine No. 2660 When made 1937

**DONKEY** Boilers made at Amman By whom made Cochran & Co Ltd Boiler No. 13483 When made 1937

Owner Compagnie Maritime Belge (Boys Royale) S. A. Port belonging to Antwerp

## VERTICAL DONKEY BOILER.

Please see Glasgow Report No 58257

Made at — By whom made — Boiler No. 13483 When made 1937 Where fixed in the engine room

Manufacturers of Steel —

Total Heating Surface of Boiler — Is forced draught fitted no Coal or Oil fired & extra fuel gas

No. and Description of Boilers one Working pressure —

Tested by hydraulic pressure to — Date of test — No. of Certificate 12938

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler 2 off direct spring loaded, 2 1/2" diam.

Area of each set of valves per boiler per rule 980" Pressure to which they are adjusted 100 lbs/sq in Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no main boiler Smallest distance between boiler or uptake and bunkers or woodwork no woodwork

Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating 1200 w/in

Is the base of the boiler insulated yes Largest internal dia. of boiler — Height —

Shell plates: Material — Tensile strength — Thickness —

Are the shell plates welded or flanged — Description of riveting: circ. seams — end — long. seams —

Dia. of rivet holes in — Pitch of rivets — Percentage of strength of circ. seams — of Longitudinal joint —

Working pressure of shell by rules — 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 — 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 — 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 — Tensile strength — Thickness — Mean pitch of stay tubes in nests —

If comprising shell, Dia. as per rule — Pitch in outer vertical rows — Dia. of tube holes FRONT — BACK —

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 —



**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 \_\_\_\_\_ Section of compensating ring \_\_\_\_\_ No. of rivets and diameter \_\_\_\_\_

of rivet holes \_\_\_\_\_ Outer row rivet pitch at ends \_\_\_\_\_ 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 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - -  
During erection on board vessel - -

10/10 - 1/11 - 4/11 - 7/11 - 14/11 - 17/11 - 22/11 - 23/11 - 24/11 - 25/11  
27/11 - 28/11 - 1937

Is the approved plan of boiler forwarded herewith *nt*  
(If not state date of approval.)

Total No. of visits *12*

Is this Boiler a duplicate of a previous case *✓*

If so, state Vessel's name and Report No. *✓*

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

*This dummy boiler has been fitted on board the above vessel under special survey in accordance with the Rules*

*a duplex feed pump, 3 1/2" x 2 1/2" x 4", and a steam injector has been fitted to the boiler.*

*The boiler is supplying steam for the heater in the accommodation, the emergency air compressor and a steam whistle.*

Survey Fee ...

Travelling Expenses (if any) £

When applied for, ...

When received, ...

19

19

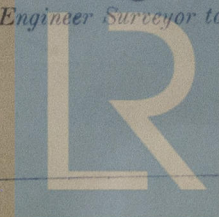
Committee's Minute

TUE. 12 OCT 1937

Assigned

*See other FE report*

*J. Langhorne, Engineer*  
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation