

# REPORT ON BOILERS.

No. 19106

Received at London Office 13 JAN 1930

Date of writing Report 13. 9. 28 When handed in at Local Office 19 Port of Rotterdam

No. in Reg. Book Survey held at Rotterdam Date, First Survey 1<sup>st</sup> of August Last Survey 29<sup>th</sup> of Aug 1928

on the Wark Beat Boiler MV "POELAU TELLO" (Number of Visits 8) Tons Gross Net

Built at Flushing By whom built Hon Mr. De Schelde Yard No. When built 1920

Engines made at Winterthur By whom made Sulzer Brothers Engine No. When made 1928

Boilers made at Rotterdam By whom made Pott Dwoogd My Boiler No. 471 When made 1928

Owners Schoon My "Nederland" Port belonging to Amsterdam

## Wark Beat VERTICAL ~~DONKEY~~ BOILER.

Made at Rotterdam By whom made Pott Dwoogd My Boiler No. 471 When made 1928 Where fixed

Manufacturers of Steel Societe Anonyme des Usines Metallurgiques de la Baso-hoive

Total Heating Surface of Boiler 68 sq m<sup>2</sup> Is forced draught fitted  Coal or Oil fired Gas

No. and Description of Boilers One vertical boiler Working pressure 72 lbs

Tested by hydraulic pressure to 144 lbs Date of test 29. 8. 28 No. of Certificate 891

Area of Firegrate in each Boiler  No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler  as fitted 9.80" Pressure to which they are adjusted 72 Are they fitted with easing gear

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 6'-8" Height 8' 3 1/2"

Shell plates: Material S. M. Steel Tensile strength 26-30 tons Thickness 1/2" melle

Are the shell plates welded or flanged No Description of riveting: circ. seams lap & angle riveted long. seams lap 2 x riv

Dia. of rivet holes in { circ. seams 29/32" Pitch of rivets 2 1/4" Percentage of strength of circ. seams { plate 63.71% of Longitudinal joint { rivets 84.2% combined ...

Working pressure of shell by rules 132 lbs 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 Heel back Heel Tensile strength { 26-30 tons Thickness { 3/4" Mean pitch of stay tubes in nests 7 1/2"

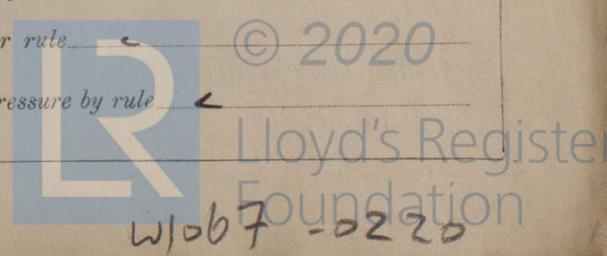
comprising shell, Dia. as per rule { front  back  Pitch in outer vertical rows {  Dia. of tube holes { TOP FRONT { stay 2 1/4" plain 2 1/16" BACK { stay 2" plain 2"

each alternate tube in outer vertical rows a stay tube  Working pressure by rules { front  back

Orders 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



See list 20/1/30

W1067-0220

**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 J.M. Hill External diameter { plain 2" stay 2" Thickness { M<sup>o</sup> 11/16 30 x 5/16 18 x 1/4

No. of threads per inch 11 Pitch of tubes 3' Working pressure by rules 155 lbs

**Manhole Compensation:** Size of opening in shell plate 16 x 20" Section of compensating ring 2'4" x 2'0" No. of rivets and diameter of rivet holes 40 @ 1 1/2" Outer row rivet pitch at ends 2 1/2" Depth of flange if manhole flanged 3 1/2"

**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,

ROTTERDAMSCH E DROOGDOEK MAATSCHAPPIJ

DIRECTEUR

*[Signature]* Manufacture

Dates of Survey { During progress of work in shops - - } 1-4-8-14-17-23-27-29  is the approved plan of boiler forwarded herewith Retained  
 while building { During erection on board vessel - - }  Total No. of visits 8  
 (If not state date of approval.) 4-5-20

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been made according to the approved plan, Society's Rules and Secretary's letter. Material tested as required and workmanship good.

Survey Fee ... 50.00 When applied for, 4/10 1928  
 Travelling Expenses (if any) 1.50 When received, 10/10 1928

*[Signature]*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute EXC 17 JAN 1930  
 Assigned See other J.E. Apt.

