

## REPORT ON BOILERS.

No. 15919

19 JUL 1928

Received at London Office

Date of writing Report 17 7 1928 When handed in at Local Office 17 7 1928 Port of Grimsey  
 Survey held at Grimsey Date, First Survey 28-6-28 Last Survey 13-7-1928  
 No. in g. Book 152 on the Donkey Boiler for M.S. SLIEDRECHT (Number of Visits 3) Gross 4647 Tons Net 2642  
 Made at Rotterdam By whom built Rotterdam Droog Maat Yard No. When built 1924-9  
 Engines made at Glasgow By whom made Harland & Wolff Ltd Engine No. When made 1924  
 Boilers made at Lincoln By whom made Babcock & Wilcox Ltd Boiler No. 68/128 When made 1928  
 Name Stoom Maat "De Maas" Port belonging to Rotterdam  
 Owners N.V. Rho van Ommeren Scheepv. Bedrijf

## VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox Ltd Boiler No. 68/128 When made 1928 Where fixed ✓  
 Manufacturers of Steel Parkgate 7 & S. Co. Ltd  
 Total Heating Surface of Boiler 1217 sq. ft. Is forced draught fitted no Coal or Oil fired Waste Heat  
 Name and Description of Boilers One, Spence, Horizontal, Multitubular, Waste Heat Working pressure 142 lbs.  
 Tested by hydraulic pressure to 263 lbs. ✓ Date of test 13/7/28 No. of Certificate 236  
 Area of Firegrate in each Boiler none No. and Description of safety valves to each boiler ✓  
 Area of each set of valves per boiler { per rule ✓ as fitted 15.32 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  
 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'-6"  
 Shell plates: Material S. L. steel Tensile strength 28/32 T. ✓ Thickness 1/2" ✓  
 Are the shell plates welded or flanged no Description of riveting: circ. seams { end S. R. ✓ long. seams D. R. D. B. S. ✓ inter. D. R. ✓  
 Dia. of rivet holes in { circ. seams 7/8" + 15/16" ✓ Pitch of rivets 2.823 & 2 5/16 ✓ Percentage of strength of circ. seams { plate 54.45 of Longitudinal joint { rivets 54.75 of rivets 71.6 { plate 77.5 rivets 82 combined 89  
 Working pressure of shell by rules 184 lbs. Thickness of butt straps { outer 1/2" ✓ inner 1/2" ✓  
 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 S. L. steel back " Tensile strength 26/30 T. Thickness 3/4" ✓ Mean pitch of stay tubes in nests 7 1/2"  
 of comprising shell, Dia. as per rule { front ✓ back ✓ Pitch in outer vertical rows { 2 1/2" ✓ Dia. of tube holes FRONT { stay 1 13/16" BACK { stay 1 13/16" plain 1 1/2" plain 1 5/8"  
 Is each alternate tube in outer vertical rows a stay tube no Working pressure by rules { front 380 lbs. back " "

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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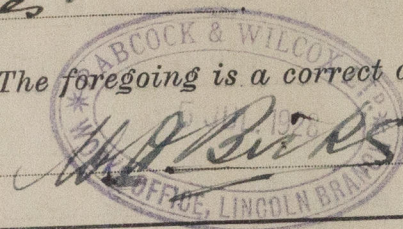


**Crown stays:** Material ☒ Tensile strength ☒ Diameter ☒ { at body of stay, ☒ over threads ☒  
 No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒  
**Screw stays:** Material ☒ Tensile strength ☒ Diameter ☒ { at turned off part, ☒ or over threads ☒ No. of threads per inch ☒  
 Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends ☒  
**Tubes:** Material *S.D. h. S.* External diameter { plain *1 1/2"* stay *1 5/8"* Thickness { *10* *1/4"*  
 No. of threads per inch *9* Pitch of tubes *2 1/2"* Working pressure by rules *350 lb.*  
**Manhole Compensation:** Size of opening in shell plate *18" x 13"* Section of compensating ring *5 5/16" x 3/4"* No. of rivets and dia  
 of rivet holes *52* *13/16"* Outer row rivet pitch at ends *3.16"* 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*

The foregoing is a correct description,

Request form received,  
See Lon. ltr "E" 13/6/28



Dates of Survey { During progress of work in shops - *1928 Jan 28 Jul 10, 13*  
 while building { During erection on board vessel - -

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

Total No. of visits *3*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The materials and workmanship are good.*

*This boiler has been built under special survey and in accordance with the Rules and approved plan. It is to be shipped to Rotterdam to be fitted in the above vessel.*

Survey Fee *£ 8 : 0 : 0* When applied for, *17. 7. 19. 28*  
 Travelling Expenses (if any) *£ 1 : 0 : 0* When received, *1-9-28*

*W. G. Kimble*  
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 18 DEC 1928

Assigned



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