

# REPORT ON BOILERS.

No. 10061 <sup>6</sup>

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Date of writing Report *18 April 1915* When handed in at Local Office *1915* Port of *Rotterdam*

No. in Survey held at *Flushing* Date First Survey *0/17 1915* Last Survey *11 November 1915*

Reg. Book. on the *Blz. 485, 486 "S. J. Veldrecht"* (Number of Visits *9*) Tons <sup>Gross</sup> <sub>Net</sub>

Master *Van der Meer* Built at *Utrecht* By whom built *W. J. G. van der Meer* When built *1914*

Engines made at *Albion* By whom made *Albion* When made *1914*

Boilers made at *Flushing* By whom made *Van der Meer* When made *1915*

Registered Horse Power *1* Owners *Van der Meer* Port belonging to *Rotterdam*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Man. Phoenix Alk*

(Letter for record *S.*) Total Heating Surface of Boilers *3144 sq ft* Is forced draft fitted *✓* No. and Description of Boilers *2 high end main boiler* Working Pressure *180 lb.* Tested by hydraulic pressure to *240 lb.* Date of test *11.11.15*

No. of Certificate *598* Can each boiler be worked separately *✓* Area of fire grate in each boiler *45 sq ft* No. and Description of safety valves to each boiler *2 spring loaded* Area of each valve *✓* Pressure to which they are adjusted *✓*

Are they fitted with easing gear *✓* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*

Smallest distance between boilers or uptakes and bunkers or woodwork *✓* Mean dia. of boilers *12 6 3/4"* Length *10 5 1/2"*

Material of shell plates *Steel* Thickness *1 3/8"* Range of tensile strength *28-50 tons* Are the shell plates welded or flanged *✓*

Descrip. of riveting: cir. seams *lap 2 x riv.* long. seams *alt. butt* Diameter of rivet holes in long. seams *1 1/4"* Pitch of rivets *8 5/16"*

Lap of plates or width of butt straps *19 5/8"* Per centages of strength of longitudinal joint rivets *89%* Working pressure of shell by rules *180 lb.* Size of manhole in shell *12" x 16"* Size of compensating ring *8 1/2" x 1 1/8"* No. and Description of Furnaces in each boiler *2 muffle furnaces* Material *Steel* Outside diameter *4' 1 1/4"* Length of plain part *top 2' 1 1/2"* Thickness of plates *crown 2 1/2"* *bottom 1 3/2"*

Description of longitudinal joint *Welded* No. of strengthening rings *✓* Working pressure of furnace, by the rules *200 lb.* Combustion chamber plates: Material *Steel* Thickness: Sides *5/8"* Back *2 1/2"* Top *5/8"* Bottom *1 1/4"* Pitch of stays to ditto: Sides *7/8" x 4"* Back *4/8" x 4"*

Top *7/8" x 4"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *190 lb.* Material of stays *Steel* Diameter at smallest part *1.48"* Area supported by each stay *52 sq in* Working pressure by rules *240 lb.* End plates in steam space: Material *Steel* Thickness *1 1/4"*

Pitch of stays *1 1/4" x 1 1/4"* How are stays secured *nuts* Working pressure by rules *190 lb.* Material of stays *Steel* Diameter at smallest part *5.24"*

Area supported by each stay *280 sq in* Working pressure by rules *200 lb.* Material of Front plates at bottom *Steel* Thickness *1 1/2"* Material of Lower back plate *Steel* Thickness *1 1/2"* Greatest pitch of stays *1 3/4" x 4"* Working pressure of plate by rules *340 lb.* Diameter of tubes *3 1/4"*

Pitch of tubes *4 5/16"* Material of tube plates *Steel* Thickness: Front *1 1/8"* Back *1 1/8"* Mean pitch of stays *8 1/8" x 8 1/8"* Pitch across wide water spaces *14 1/2"* Working pressures by rules *260 lb.* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8" x 2" x 1/4"* Length as per rule *29 1/2"* Distance apart *8"* Number and pitch of Stays in each *36 4 1/2"*

Working pressure by rules *190 lb.* Superheater or Steam chest; how connected to boiler *✓* Can the superheater be shut off and the boiler worked separately *✓* Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet holes *✓* Pitch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*

If stiffened with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*

Working pressure of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

**Koninklijke Maatschappij „DE SCHIEDS"** Description, **Scheepbouw en Werktuigenfabriek** Manufacturer.

Dates of Survey *6/4 12/4 16/8 20/8 21/8 21/9 5/10 13/10 11/11 1915* During progress of work in shops *✓* while building *✓* (During erection on board vessel *✓*)

the approved plan of boiler forwarded herewith

Total No. of visits *9*

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

The boiler has been made in accordance with the approved plan and Secretary's letter, material better as required and workmanship good.

Survey Fee *£ 2 10/0* When applied for *1914*

Travelling Expenses (if any) *£ 2 10/0* When received, *1915*

Committee's Minute *TUE. MAY. 23. 1916*

Assigned *See minute f.e. rpt. attached*

*J. P. B. B. B.*  
Engineer Surveyor to Lloyd's Register of Shipping.

