

19 Port of Rotterdam

Nom. Horse Power as per Section 28 266 ✓ Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted Na ✓

**BOILERS, &c.**—(Letter for record *S. ✓*) **Manufacturers of Steel** *Rheinische Stahlw. Fabrik, Duisburg, Essen u. Aachen, ✓*

**Total Heating Surface of Boilers** *4268. ✓* **Is Forced Draft fitted** *No ✓* **No. and Description of Boilers** *2 single ended marine boilers ✓*

**Working Pressure** *160 lbs. ✓* **Tested by hydraulic pressure to** *240 lbs. ✓* **Date of test.** *16-2-12. ✓* **No. of Certificate** *318 ✓*

**Can each boiler be worked separately** *Yes. ✓* **Area of fire grate in each boiler** *604.4 feet. ✓* **No. and Description of Safety Valves to**

**each boiler** *4 spring loaded. ✓* **Area of each valve** *4.06 sq. ✓* **Pressure to which they are adjusted** *160 lbs. ✓* **Are they fitted with easing gear** *Yes ✓*

**Smallest distance between boilers or uptakes and bunkers or woodwork** *over 12" ✓* **Mean dia. of boilers** *15" ✓* **Length** *10'6" ✓* **Material of shell plates** *Steel ✓*

**Thickness** *1 3/32" ✓* **Range of tensile strength** *28-32 tons ✓* **Are the shell plates welded or flanged** *No. ✓* **Descrip. of riveting: cir. seams** *lap & riv ✓*

**long. seams** *double butt & riv ✓* **Diameter of rivet holes in long. seams** *1 1/4" ✓* **Pitch of rivets** *8 1/4" ✓* **Lap of plates or width of butt straps** *18" ✓*

**Per centages of strength of longitudinal joint** *rivets 100% & 75% plate 84% & 75% ✓* **Working pressure of shell by rules** *160.6 lbs. ✓* **Size of manhole in shell** *12" x 16" ✓*

**Size of compensating ring** *4" ✓* **No. and Description of Furnaces in each boiler** *3 Marine furn. ✓* **Material** *Steel ✓* **Outside diameter** *3' 9 1/2" ✓*

**Length of plain part** *top 1" bottom 1" ✓* **Thickness of plates** *crown 1/2" bottom 1/2" ✓* **Description of longitudinal joint** *welded ✓* **No. of strengthening rings** *1 ✓*

**Working pressure of furnace by the rules** *164 lbs. ✓* **Combustion chamber plates: Material** *Steel ✓* **Thickness: Sides** *2 1/2" ✓* **Back** *7/8" ✓* **Top** *2 1/2" ✓* **Bottom** *7/8" ✓*

**Pitch of stays to ditto: Sides** *8 x 8" ✓* **Back** *7 1/4" x 8" ✓* **Top** *8 x 8 1/2" ✓* **If stays are fitted with nuts or riveted heads** *under, under, under ✓* **Working pressure by rules** *160 lbs. ✓*

**Material of stays** *Steel ✓* **Diameter at smallest part** *1.12" ✓* **Area supported by each stay** *62 sq. ✓* **Working pressure by rules** *160 lbs. ✓* **End plates in steam space:**

**Material** *Steel ✓* **Thickness** *1 1/2" ✓* **Pitch of stays** *14" x 19" ✓* **How are stays secured** *stay nuts, under water. ✓* **Working pressure by rules** *165 lbs. ✓* **Material of stays** *Steel ✓*

**Diam. at smallest part** *5.4" ✓* **Area supported by each stay** *325 sq. ✓* **Working pressure by rules** *174 lbs. ✓* **Material of Front plates at bottom** *Steel ✓*

**Thickness** *2 1/2" ✓* **Material of Lower back plate** *Steel ✓* **Thickness** *7/8" ✓* **Greatest pitch of stays** *14" x 8 3/4" ✓* **Working pressure of plate by rules** *205 lbs. ✓*

**Diameter of tubes** *3 1/4" ✓* **Pitch of tubes** *4 1/2" x 4 1/4" ✓* **Material of tube plates** *Steel ✓* **Thickness: Front** *2 1/2" ✓* **Back** *2 1/2" ✓* **Mean pitch of stays** *8 3/4" x 8 1/8" ✓*

**Pitch across wide water spaces** *15 1/4" x 8 1/4" ✓* **Working pressures by rules** *164 lbs. ✓* **Girders to Chamber tops: Material** *Steel ✓* **Depth and**

**thickness of girder at centre** *8 1/4" x 1 1/4" ✓* **Length as per rule** *57" x 29 1/2" ✓* **Distance apart** *8 1/2" ✓* **Number and pitch of stays in each** *2 of 8" ✓*

**Working pressure by rules** *172 lbs. ✓* **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** *< ✓*

*Im. 11-1-12*

