Rpt. 5a.

REPORT ON BOILERS.

No. 8214 c

Received at London Office FRI. DEC 27. 1912

Date of writing Report 20 December 1912. When handed in at Local Office 191 Port of Rotterdam

No. in Reg. Book. Survey held at Rotterdam Date, First Survey 5 June Last Survey 23. November 1912

on the S.S. "Mijdrecht" (Number of Visits 10.) Tons Gross 3476.45 Net 2169.18

Master F. Spanjer Built at Rotterdam By whom built Rotterdamsche Droogdok My. When built 1912.

Engines made at Rotterdam By whom made Rotterdamsche Droogdok My. When made 1912.

Boilers made at DO By whom made DO When made 1912

Registered Horse Power Owners N. V. S.S. "Mydrecht" Port belonging to Rotterdam

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ **DONKEY.**—Manufacturers of Steel Thyssen, Co. Eisen und Stahlwerke Mulheim - Ruhr.

(Letter for record S.) **Total Heating Surface of Boilers.** 800 □ Is forced draft fitted No **No. and Description of Boilers** Horizontal marine boiler **Working Pressure** 180 lb. Tested by hydraulic pressure to 270 lb. Date of test 13 September

No. of Certificate 327 Can each boiler be worked separately **Area of fire grate in each boiler** 31 □ No. and Description of safety valves to each boiler 2 spring loaded. Area of each valve 3.14 □" Pressure to which they are adjusted 180 lb.

Are they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Smallest distance between boilers or uptakes and bunkers or woodwork over 12." Mean dia. of boilers. 10' 6" Length 9'

Material of shell plates Steel Thickness 29/32" Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams double riv. lap long. seams double butt 5 x riv. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 1/2"

Lap of plates or width of butt straps 15" Per centages of strength of longitudinal joint rivets 112% plate 83.6% Working pressure of shell by rules 182 lb. Size of manhole in shell 12" x 16" Size of compensating ring 8 1/2 x 7/8" **No. and Description of Furnaces in each boiler** Two plain furnaces Material Steel Outside diameter 3' 4 7/16" Length of plain part top 68" bottom Thickness of plates crown 23/32" bottom

Description of longitudinal joint Welded No. of strengthening rings None. Working pressure of furnace by the rules 184 lb. Combustion chamber plates: Material Steel Thickness: Sides 43/64" Back 43/64" Top 43/64" Bottom 43/64" Pitch of stays to ditto: Sides 8" x 7 1/2" Back 7 1/2" x 7 1/2" Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads riveted, nutted in margins Working pressure by rules 183 lb. Material of stays Steel ~~Diameter~~ area at smallest part 1.447. Area supported by each stay 60 □" Working pressure by rules 193 lb. End plates in steam space: Material Steel Thickness 29/32"

Pitch of stays 15" x 15" How are stays secured double nuts. Screws riveted patches Working pressure by rules 205 lb. Material of stays Steel ~~Diameter~~ area at smallest part 3.97 □"

Area supported by each stay. 225" Working pressure by rules 183 lb. Material of Front plates at bottom Steel Thickness 7/8" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 14 3/8" - 7 1/2" Working pressure of plate by rules 401 lb. Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates Steel Thickness: Front. 7/8" Back 13/16" Mean pitch of stays 9" x 8 3/4" Pitch across wide water spaces 15 1/4" Working pressures by rules 233 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre. 7 11/16" x 1 1/8" Length as per rule 26 1/2" Distance apart 7 1/2" Number and pitch of Stays in each 2 of 8"

Working pressure by rules 192 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

ROTTERDAMSCHE DROOGDOK MAATSCH.

The foregoing is a correct description,

[signature] Manufacturer.

DE DIRECTIE

Dates of Survey while building: During progress of work in shops - - June 5. 21. 27. July 2. 9. Aug 23-29. Sept. 12. 13. During erection on board vessel - - - 28/11

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits 10.

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

The boiler having been built in accordance with the approved plans and Secretary's letters, material tested as required, workmanship good. I am of opinion that the vessel is eligible to be recorded in the Society's Registerbook with + L.M.C. 12.12.

Survey Fee ... ... £ 32.40 : When applied for, 23/12 1912

Travelling Expenses (if any)) £ : : When received, 31. 12 1912 1.1.13

[signature] N. Bernoski

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. DEC. 31. 1912

Assigned see Minute on Rot Rpt 8214 b

W177-0088

© 2019 Lloyd's Register Foundation