

REPORT ON BOILERS.

No. 7671
WED. MAR. 13. 1912

Received at London Office

of writing Report 11 March 1912 When handed in at Local Office 19 Port of Rotterdam
 No. in Survey held at Rotterdam Date, First Survey 20 September 1911 Last Survey 27/2 1912
 Safety Book. on the Steel Screw Steamer "Dordrecht" (Number of Visits 4) Tons } Gross 3051.35
 } Net 1894.47
 Master J. Stephen Built at Rotterdam By whom built Prof. Droyd. Nij. When built 1911-1912
 Engines made at } Rotterdam By whom made } Prof. Droyd. Nij. when made } 1911-1912
 Boilers made at } Rotterdam By whom made } Prof. Droyd. Nij. when made } 1911-1912
 Registered Horse Power 2 Owners Shell Co. of Netherl. Ind. & Petroleum Co. Nij. Port belonging to Rotterdam

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY~~ OR DONKEY.—Manufacturers of Steel Chemisch-Industrie Afd. Dordrecht, Nij.

Letter for record S. Total Heating Surface of Boilers 800 sq ft Is forced draft fitted No. No. and Description of Boilers Single under main tubes Working Pressure 100 lbs. Tested by hydraulic pressure to 150 lbs. Date of test 11-2-12.

No. of Certificate 319 Can each boiler be worked separately L Area of fire grate in each boiler 31 sq ft No. and Description of Safety valves to each boiler 2 spring loaded Area of each valve 7.06 Pressure to which they are adjusted 100 lbs.

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

Smallest distance between boilers or uptakes and bunkers or woodwork over 12" Mean dia. of boilers 10 1/2" Length 9'

Material of shell plates Steel Thickness 9/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No.

Description of riveting: cir. seams 2 x 4 in. long. seams 5 x 4 in. Diameter of rivet holes in long. seams 3/4" Pitch of rivets 4 7/8"

Gap of plates or width of butt straps 10 7/8" Per centages of strength of longitudinal joint plate 85% Working pressure of shell by rules 101 lbs. Size of manhole in shell 12" x 16" Size of compensating ring 5" x 4 1/2" No. and Description of Furnaces in each boiler 2 plain furnaces

Description of longitudinal joint Welded No. of strengthening rings 4 at bottom Working pressure of furnace by the rules 100 lbs. Combustion chamber plates: Material Steel Thickness: Sides 7/16" Back 9/16" Top 7/16" Bottom 7/16" Pitch of stays to ditto: Sides 9 x 9 1/2" Back 8 1/2 x 9 1/2"

Top 9 x 9 1/2" If stays are fitted with nuts or riveted heads riveted Working pressure by rules 100 lbs. Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 4 1/2 sq ft Working pressure by rules 100 lbs. End plates in steam space: Material Steel Thickness 1/16"

Pitch of stays 15" x 15" How are stays secured double nuts Working pressure by rules 100 lbs. Material of stays Steel Diameter at smallest part 2 1/4" Area supported by each stay 225 sq in. Working pressure by rules 100 lbs. Material of Front plates at bottom Steel Thickness 1/16" Material of Lower back plate Steel Thickness 1/16" Greatest pitch of stays 14 1/4" x 8 1/2" Working pressure of plate by rules 150 lbs. Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1/16" Back 1/16" Mean pitch of stays 15 1/2" x 9" Pitch across wide water spaces 15 1/4" x 8 1/8" Working pressures by rules 200 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/4" x 1" Length as per rule 2' 4" Distance apart 4 1/2" Number and pitch of Stays in each 2 stays 9"

Working pressure by rules 100 lbs. Superheater or Steam chest; how connected to boiler L Can the superheater be shut off and the boiler worked separately L Diameter L Length L Thickness of shell plates L Material L Description of longitudinal joint L Diam. of rivet holes L Pitch of rivets L Working pressure of shell by rules L Diameter of flue L Material of flue plates L Thickness L

If stiffened with rings L Distance between rings L Working pressure by rules L End plates: Thickness L How stayed L Working pressure of end plates L Area of safety valves to superheater L Are they fitted with easing gear L

The foregoing is a correct description,
M. M. M. Manufacturer.

Dates of Survey } During progress of work in shops - - } 11/10; 13/11; 15/12; 17/1; 1/2; 16/2;
 while building } During erection on board vessel - - - } 27/2.
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler having been made in accordance with the approved plans, material tested as required, and workmanship good. I am of opinion that the vessel is eligible to be recorded. + L.M.C. 3.12.

Survey Fee ... f. 32.- : : When applied for, 12/3 1912
 Travelling Expenses (if any) £ : : When received, 29-3 1912

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

Committee's Minute FRI. MAR. 15. 1912

Assigned

