

REPORT ON BOILERS.

No. 7671
WED. MAR. 13. 1912

Received at London Office

Date of writing Report 11 March 1912 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Rotterdam
Safety Book.

Date, First Survey 20 September 1911 Last Survey 27/2 1912
(Number of Visits 4)

on the Steel Screw Steamer "Dordrecht" Tons } Gross 3051.35
Net 1894.44

Master J. Stephen Built at Rotterdam By whom built Prof. Dreyd. Nij. When built 1911-1912

Engines made at Rotterdam By whom made Prof. Dreyd. Nij. when made 1911-1912

Boilers made at Rotterdam By whom made Prof. Dreyd. Nij. when made 1911-1912

Registered Horse Power 2 Owners Llanoed. 10 mny. 2 Rotterdam Steamer Nij. Port belonging to Rotterdam

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

Letter for record S. Total Heating Surface of Boilers 800 sq Is forced draft fitted Yes No. and Description of

Boilers Single end main tubes Working Pressure 100 lb. Tested by hydraulic pressure to 150 lb. Date of test 11-2-12.

No. of Certificate 319 Can each boiler be worked separately Yes Area of fire grate in each boiler 31 sq No. and Description of

Safety valves to each boiler 2 spring loaded Area of each valve 4.06 Pressure to which they are adjusted 100 lb.

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

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 rivets 125% Working pressure of shell by plate 85%

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 1 plain furnace Material Steel Outside diameter 3 1/4" Length of plain part 35 3/8" Thickness of plates crown 1/2" bottom 1/2"

Description of longitudinal joint Welded No. of strengthening rings 4 at bottom Working pressure of furnace by the rules 100 lb. Combustion chamber

Plates: Material Steel Thickness: Sides 1/2" Back 9/16" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 9 x 1 1/2" Back 8 1/2 x 1 1/2"

Top 9 x 1 1/2" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 100 lb. Material of stays Steel Diameter at

Smallest part 0.98" Area supported by each stay 4 1/2" Working pressure by rules 100 lb. End plates in steam space: Material Steel Thickness 1/16"

Pitch of stays 15 x 1 1/2" How are stays secured Double nuts Working pressure by rules 100 lb. Material of stays Steel Diameter at smallest part 2 1/4"

Area supported by each stay 225 sq Working pressure by rules 100 lb. 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 lb. 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 1/2" Working pressures by rules 200 lb. 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 lb. Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

separately Yes 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

The foregoing is a correct description,
M. H. H. M. A. T. S. H. A. P. J. 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 - - - } 24/2.

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 19 12/4

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

Committee's Minute FRI. MAR. 15. 1912

Assigned