

REPORT ON BOILERS.

No. 4888. 62.

Received at London Office FRI. JUL. 28. 1911

Date of writing Report 25 July 1911 When handed in at Local Office

19 Port of Amsterdam

No. in Survey held at Amsterdam

Date, First Survey 21 April 1910 Last Survey 22 July 1911

Reg. Book.

(Number of Visits 37.)

Gross 8176.15

673 on the two single ended boilers S.S. Koningin der Nederlanden

Net 4982.89

Name of Master P. Muechand

Built at Amsterdam

By whom built Ned Scheepbouw Maats

When built 1911

Engines made at Amsterdam

By whom made

Ned fabriek van Werk & Spoor Maats

when made 1911

Boilers made at Amsterdam

By whom made

Ned fabriek van Werk & Spoor Maats

when made 1911

Registered Horse Power 1094. 1093.

Owners

Stoom Maats Nederland

Port belonging to Amsterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Dams Colville & Leeds Forge

Letter for record 5) Total Heating Surface of Boilers 4460 sq ft Is forced draft fitted Yes No. and Description of

Boilers Two, Single Ended Working Pressure 210 lbs Tested by hydraulic pressure to 420 lbs Date of test 13 Feb 1911

No. of Certificate 136/137 Can each boiler be worked separately Yes Area of fire grate in each boiler 51 sq ft No. and Description of

safety valves to each boiler Two direct spring Area of each valve 5.95 sq in Pressure to which they are adjusted 210 lbs

Are they fitted with easing gear Yes 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 20" Mean dia. of boilers 14' 0" Length 10' 9 1/2"

Material of shell plates 1/2" Steel Thickness 1 3/16" Range of tensile strength 26-30 t Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Triple long. seams Double Flange, Transverse Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10"

Gap of plates or width of butt straps 217 1/2" Per centages of strength of longitudinal joint rivets 84.15 Working pressure of shell by

rules 253 lbs Size of manhole in shell 12 1/4" x 16 1/4" Size of compensating ring 32" x 36" No. and Description of Furnaces in each

Boiler three deep built furnaces Material Steel Outside diameter 48 1/2" Length of plain part top Thickness of plates crown 1 1/16"

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 237 lbs Combustion chamber

plates: Material Steel Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 7' x 8' Back 6' x 8 1/4"

Top 8' x 8' If stays are fitted with nuts or riveted heads Wrought Iron Working pressure by rules 252 lbs Material of stays steel Diameter at

smallest part 1 1/2" Area supported by each stay 57.14 Working pressure by rules 249 lbs End plates in steam space: Material steel Thickness 1 1/16"

Pitch of stays 16 1/2" x 19" How are stays secured Flange nut Working pressure by rules 228 lbs Material of stays steel Diameter at smallest part 3 1/2"

Area supported by each stay 315 sq in Working pressure by rules 244 lbs Material of Front plates at bottom steel Thickness 1 1/2" Material of

Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 6' x 8 1/4" Working pressure of plate by rules 390 lbs Diameter of tubes 2 1/4"

Pitch of tubes 3 1/8" Material of tube plates steel Thickness: Front 1 1/2" Back 1 1/8" Mean pitch of stays 7 3/4" Pitch across wide

Steamer spaces 13 1/4" Working pressures by rules 457-250 lbs Girders to Chamber tops: Material steel Depth and thickness of

Girders at centre 8' x 1 1/4" Length as per rule 30" Distance apart 8" Number and pitch of Stays in each three 8"

Working pressure by rules 220 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

The foregoing is a correct description, J. C. Moore. Manufacturer.

Dates During progress of 17.23 & 25 June, 1.6 & 13 July, 3.19 & 23 Aug, 3 & 15 Is the approved plan of boiler forwarded herewith

work in shops - - - Sept. 11, 15, 21, 25 & 27 Oct. 23 & 28 Dec 1910, 7.11, 13 & 15 Jan 1.6 & 13 Feb 1911.

During erection on 6.12.15 & 21 March, 9.20 & 29 April, 16.26 & 29 May, 23 Total No. of visits 39.

board vessel - - - June, 11, 12 & 22 July 1911.

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

Material & Workmanship throughout good. Boilers tested to 420 lbs per square inch hydraulic pressure found tight in every respect and almost no settling.

Survey Fee ... £ ... : ... : When applied for, 19

Travelling Expenses (if any) £ ... : ... : When received, 19

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

Committee's Minute

TUE. AUG. 1-1911

Assigned