

Rpt. 5a.

REPORT ON BOILERS.

No. 4759.

Received at London Office 1911. 21 FEB 1911

Date of writing Report 19 February 1911 When handed in at Local Office

19 Port of Amsterdam

No. in Survey held at
Reg. Book.Date, First Survey 10 October 1910 Last Survey 9 January 1911
(Number of Visits 8.)

on Two mainboilers intended for J. Meijers Shipbuilding Co. N: 313.

Tons { Gross
Net

Master Built at Rotterdam By whom built When built

Engines made at By whom made when made

Boilers made at Rotterdam By whom made N. Y. Wegh & Humbertina & W. H. Jacobs when made 1910-11

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Phoenix & Co. Rotterdam

(Letter for record S) Total Heating Surface of Boilers 164.60 m² 176.5 sq ft forced draft fitted No. and Description of

Boilers Two Single Ended Working Pressure 12.65 kg Tested by hydraulic pressure to 360 lbs Date of test 9 January 1911

No. of Certificate 134 6135 Can each boiler be worked separately Area of fire grate in each boiler 1.20 m² 13.4 sq ft No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 2800 Length 2950

Material of shell plates Steel Thickness 21 mm Range of tensile strength 42 to 50 kg Are the shell plates welded or flanged plain

Descrip. of riveting: cir. seams double riv long. seams double strap double twisted Diameter of rivet holes in long. seams 24 mm Pitch of rivets 148 mm

Lap of plates or width of butt straps 368 mm Per centages of strength of longitudinal joint rivets 86.59 of plate 83.78 Working pressure of shell by

rules 12.6 kg Size of manhole in shell 300 x 400 mm Size of compensating ring No. and Description of Furnaces in each

boiler two Morrison Material Steel Outside diameter 850 mm Length of plain part furnace top 2040 mm Thickness of plates crown 12.5 mm bottom 12.5 mm

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 12.71 Combustion chamber

plates: Material Steel Thickness: Sides 15 mm Back 14 mm Top 15 mm Bottom 18 mm Pitch of stays to ditto: Sides 160 x 165 mm Back 162.5 x 165 mm

Top 160 mm If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 13.5 615.5 kg Material of stays Steel Diameter at

smallest part top and bottom 38 mm Area supported by each stay 1681 mm² Working pressure by rules 16.8 kg End plates in steam space: Material Steel Thickness 12 + 16 mm

Pitch of stays 400 x 400 mm How are stays secured double nuts Working pressure by rules 14.1 kg Material of stays Steel Diameter at smallest part 63.5 mm

Area supported by each stay 160,000 Working pressure by rules 13.9 kg Material of Front plates at bottom Steel Thickness 12 mm Material of

Lower back plate Steel Thickness 12 mm Greatest pitch of stays 350 x 400 Working pressure of plate by rules 13.7 kg Diameter of tubes 76 mm

Pitch of tubes 101 x 101 mm Material of tube plates Steel Thickness: Front 22 mm Back 18 mm Mean pitch of stays 202 x 303 mm Pitch across wide

water spaces 360 mm Working pressures by rules 19.9-13.3 and 20 kg Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 180 x two of 15 mm Length as per rule 600 mm Distance apart 210 mm Number and pitch of Stays in each two 160 mm

Working pressure by rules 12.2 kg Superheater Steam chest: how connected to boiler double riveted Can the superheater be shut off and the boiler worked

separately Diameter 600 mm Length 650 mm Thickness of shell plates 16 Material Steel Description of longitudinal joint lap double twisted Diam. of rivet

holes 23 mm Pitch of rivets 77.5 mm Working pressure of shell by rules 17.5 kg 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. F. Bruns Manufacturer.

Dates of Survey During progress of work in shops - - - From 10 of October 1910 till the 9 January 1911 Is the approved plan of boiler forwarded herewith Yes.
while building During erection on board vessel - - - Total No. of visits 8.

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

The material and the workmanship in the construction of these boilers throughout good. the former of good ductile quality and duly tested as required. Boilers during the hydraulic test to 360 lb per sq inch perfectly tight and no settling whatever are intended for J. Meijers Shipb Co section Dredge N: 313 building in their yard at Rotterdam.

Survey Fee ... \$ 60.- : When applied for, February 1911.
Travelling Expenses (if any) \$ 16.20 : When received, February 1911.

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

Committee's Minute FRI. SEP 1-1911

Assigned

See Minute on ans. Rpt 4930



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