

## REPORT ON BOILERS.

No. 5977. 6  
MON APR 6-1914

Received at London Office

Date of writing Report 31 March 1914 When handed in at Local Office

Port of Amsterdam

Safety

No. in Survey held at Amsterdam

Reg. Book.

Date, First Survey March 18-1913 Last Survey March 6, 1914

1472 on the Donkey boiler of the Stul twin screw Motor Vessel "Artemis"

(Number of Visits 10)

Gross 8803

Tons Net 2312

Master T. Reeder Built at Amsterdam By whom built Nedel Schepb N<sup>o</sup>.

When built 1914

Engines made at Amsterdam By whom made Werkspoor

when made 1914

Boilers made at Amsterdam By whom made Werkspoor

when made 1914

Registered Horse Power 2400

Owners Nedel Ind tankstoom N<sup>o</sup>. Port belonging to S. Gravenhage

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Phoenix Abbe Fordu Kerin

(Letter for record S) Total Heating Surface of Boilers 985 sq ft Is forced draft fitted no No. and Description of

Boilers One single ended Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 14 Aug 1913

No. of Certificate 165 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of

safety valves to each boiler 2 Spring loaded Area of each valve 5.10 Pressure to which they are adjusted 120 lbs

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

Smallest distance between boilers or uptakes and bunkers or woodwork 2' 2" Mean dia. of boilers 10' 2 1/2" Length 9' 6 3/16"

Material of shell plates SMS Thickness 3/4" Range of tensile strength 4648 lb/in<sup>2</sup> Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double lapped long. seams Butts lapped riveted Diameter of rivet holes in long. seams 0.94" Pitch of rivets 4.9"

Lap of plates or width of butt straps 9 1/2" Per centages of strength of longitudinal joint rivets 85% plate 81% Working pressure of shell by

rules 145 lbs Size of manhole in shell 12" x 16" Size of compensating ring 19" x 23" No. and Description of Furnaces in each

boiler Two plain furnaces Material SMS Outside diameter 32 3/4" Length of plain part top 7' 8 3/4" Thickness of plates crown 3/16" bottom 3/16"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 166 lbs Combustion chamber

plates: Material SMS Thickness: Sides 10/16" Back 10/16" Top 10/16" Bottom 10/16" Pitch of stays to ditto: Sides 7 1/2" x 8 3/16" Back 7 1/2" x 8 1/2"

Top 8 3/16" If stays are fitted with nuts or riveted heads both Working pressure by rules 155 lbs Material of stays SMS Diameter at

smallest part 1 1/4" Area supported by each stay 64.25 sq in Working pressure by rules 153 lbs End plates in steam space: Material SMS Thickness 12.6/16"

Pitch of stays 15" How are stays secured riveted Working pressure by rules 155 lbs Material of stays SMS Diameter at smallest part 1 1/4"

Area supported by each stay 225 sq in Working pressure by rules 164 lbs Material of Front plates at bottom SMS Thickness 12.6/16" Material of

Lower back plate SMS Thickness 12.6/16" Greatest pitch of stays 15 3/4" x 12 1/2" Working pressure of plate by rules 137 lbs Diameter of tubes 3"

Pitch of tubes 4" x 4 1/4" Material of tube plates SMS Thickness: Front 12.6/16" Back 12.6/16" Mean pitch of stays 12 3/4" Pitch across wide

water spaces 15" Working pressures by rules 144 lbs = 192 lbs 136 lbs Girders to Chamber tops: Material SMS Depth and thickness of

girder at centre 5 1/2" x 1 1/4" Length as per rule 2' 1 5/8" Distance apart 7 1/2" Number and pitch of Stays in each 2 x 8 1/4"

Working pressure by rules 137 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

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,

VAN WERKTOUBEN EN SPOORWEG-MATERIEEL Manufacturer.

Dates During progress of 18 March, April 7, July 16, 10, Aug 9, 13, 14  
Survey work in shops - - -  
While During erection on 21 Sept 1913, Feb 23, 6 March 1914  
Building board vessel - - -

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c. This vessel's donkey boiler has been constructed under special survey in accordance with the approved plan and the Society's rules. Material &amp; Workmanship throughout good)

Survey Fee ... 24.00 When applied for, 19

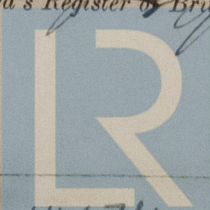
Travelling Expenses (if any) £ : : When received, 19

Shipping

Committee's Minute TUE. APR. -7. 1914

Assigned

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



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Foundation

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