

REPORT ON BOILERS.

No. 67151.

Received at London Office FRI. JAN. 12. 1915

5a.

Port of **NEWCASTLE-ON-TYNE**

Date, First Survey **July 6. 1914** Last Survey **Dec. 29 1914**

(Number of Visits **30**) Tons } Gross
Net

Survey held at **Newcastle**

on the **S S Larenberg**

Builder **Bakker** Built at **Capelle**

By whom built **A. Mijl - Zonen**

When built **1915**

Boilers made at **Shields** By whom made **G. J. Gey No. 544**

When made **1915**

Boilers made at **Newcastle** By whom made **Palmer Co No. 787/8**

When made **1914**

Registered Horse Power

Owners **Stoom Maatschappij Algemeen** Port belonging to **Amsterdam**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Thyssen & Co + Spencer + Sons**

Total Heating Surface of Boilers **4490 sq ft** Is forced draft fitted **no** No. and Description of Boilers **Two, single-ended**

Working Pressure **180 lbs** Tested by hydraulic pressure to **360 lbs** Date of test **29-12-14**

Area of fire grate in each boiler **4.08 sq ft** Pressure to which they are adjusted **180 lbs**

Area of each valve **4.08 sq ft** Can each boiler be worked separately **Yes**

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **No**

Material of shell plates **Steel** Thickness **1 7/32** Range of tensile strength **29-33** Are the shell plates welded or flanged **no**

Material of riveting: cir. seams **D. Lap** long. seams **SBS. Y. Rivt** Diameter of rivet holes in long. seams **1 1/2** Pitch of rivets **8 1/4**

Per centages of strength of longitudinal joint **84.8** Working pressure of shell by plate **84.8**

No. and Description of Furnaces in each boiler **3-plain** Material **Steel** Outside diameter **46 1/4** Length of plain part **76** Thickness of plates **13/16**

Material **Steel** Thickness: Sides **2 1/32** Back **2 1/32** Top **2 1/32** Bottom **1 5/16** Pitch of stays to ditto: Sides **9x9** Back **9x9**

Working pressure of furnace by the rules **181 lbs** Combustion chamber

Material **Steel** Thickness: Sides **2 1/32** Back **2 1/32** Top **2 1/32** Bottom **1 5/16** Pitch of stays to ditto: Sides **9x9** Back **9x9**

Working pressure by rules **183 lbs** Material of stays **Steel** Diameter **1 1/2**

Working pressure by rules **225 lbs** End plates in steam space: Material **Steel** Thickness **1 3/16**

Working pressure by rules **184 lbs** Material of stays **Steel** Diameter at smallest part **6.10**

Working pressure by rules **185 lbs** Material of Front plates at bottom **Steel** Thickness **1** Material of

Working pressure of plate by rules **185 lbs** Diameter of tubes **3 1/2**

Material of tube plates **Steel** Thickness: Front **1** Back **1 3/16** Mean pitch of stays **10 3/4** Pitch across wide

Working pressures by rules **182 lbs** Girders to Chamber tops: Material **Steel** Depth and thickness of

Length as per rule **3 1/2** Distance apart **9** Number and pitch of Stays in each **2-9**

Superheater or Steam chest; how connected to boiler **none** Can the superheater be shut off and the boiler worked

Material **Steel** Description of longitudinal joint **Welded** Diam. of rivet

Material of flue plates **Steel** Thickness **1**

Working pressure by rules **182 lbs** End plates: Thickness **1** How stayed **Id.**

Area of safety valves to superheater **30** Are they fitted with easing gear **Yes**

The foregoing is a correct description,

Dates of Survey while building: During progress of work in shops - - - **Jul 6, 13, 14, 16, Aug 13, 18, 25, 28, Sept 3, 8, 10, 14, 24, 29, Oct 1, 6, 9, 14, 19, 23, 28, Nov 6, 10, 13, 20, 24, Dec 3, 12, 23, 29.** During erection on board vessel - - - **see machinery report.**

Is the approved plan of boiler forwarded herewith **yes** Total No. of visits **30 +**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These main boilers have been constructed under special survey & the materials & workmanship are sound & good**

Survey Fee ... £ **see machinery report** When applied for, 191
Traveling Expenses (if any) £ **see machinery report** When received, 191

Committee's Minute Assigned **See minute Rot 40 rpt attached**

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

WED. APR. -7. 1915

