

## REPORT ON BOILERS.

No. 13501  
MON. JUL. 21. 1913

Received at London Office

Date of writing Report 11<sup>th</sup> July 1913 When handed in at Local Office 19 Port of Hamburg  
 No. in Survey held at Kiel Date, First Survey 4<sup>th</sup> January Last Survey 9<sup>th</sup> July 19 13  
 Reg. Book. on the Steamer "Kiowa" (Number of Visits 14) Gross Tons Net  
 Master H. Riecke Built at Kiel By whom built Howaldtswerke When built 1912  
 Engines made at Kiel By whom made Howaldtswerke when made 1913  
 Boilers made at Kiel By whom made Howaldtswerke when made 1913  
 Registered Horse Power 320 Owners Deutsch. Amerik. Petr. Ges. Port belonging to Hamburg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Glasgow Iron & Steel Co. Ltd.(Letter for record S) Total Heating Surface of Boilers 982 sqft Is forced draft fitted no No. and Description ofBoilers 1 Single ended multitubular Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 15/5/13No. of Certificate 210 Can each boiler be worked separately yes Area of fire grate in each boiler 32.3 sqft No. and Description ofsafety valves to each boiler 2 Spring loaded Area of each valve 8.29 sq. ins. 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 noSmallest distance between boilers on uptakes and bunkers on woodwork 18" Mean dia. of boilers 10 1/2" Length 9' 8 1/2"Material of shell plates Steel Thickness 687" Range of tensile strength 28-32 Tons Are the shell plates welded or flanged —Descrip. of riveting: cir. seams dbl riv. lap long. seams dbl bth. trip riv. Diameter of rivet holes in long. seams 8 7/8" Pitch of rivets 4 7/8"Lap of plates or width of butt straps 14 1/4" Per centages of strength of longitudinal joint rivets 95% Working pressure of shell byrules 124 lbs Size of manhole in shell 11 1/2 x 15 1/4" Size of compensating ring 256 x 29.5 x 16 1/2" No. and Description of Furnaces in eachboiler 2 horizontal Material Steel Outside diameter 39.27" Length of plain part top 5.9' Thickness of plates crown 1.43'Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 159.8 lbs Combustion chamberplates: Material Steel Thickness: Sides 55" Back 55" Top 55" Bottom 63" Pitch of stays to ditto: Sides 7.87" Back 7.87"Top 7.5" If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 131 lbs Material of stays Steel Diameter atsmallest part 1 1/4" Area supported by each stay 62 sq. in. Working pressure by rules 125 lbs End plates in steam space: Material Steel Thickness 1.9"Pitch of stays 14.7" How are stays secured blacked with Working pressure by rules 128 lbs Material of stays Steel Diameter at smallest part 2.8"Area supported by each stay 358 sq. in. Working pressure by rules 167 lbs Material of Front plates at bottom Steel Thickness 1.9" Material ofLower back plate Steel Thickness 1.9" Greatest pitch of stays 17.7" Working pressure of plate by rules 117 lbs Diameter of tubes 3.5"Pitch of tubes 4.5" Material of tube plates Steel Thickness: Front 1.9" Back 1.75" Mean pitch of stays 8.8" Pitch across widewater spaces 14.1" Working pressures by rules 147 lbs Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 5.5 x 1.2" Length as per rule 24" Distance apart 7.5" Number and pitch of Stays in each 2-7.87"Working pressure by rules 124 lbs Superheater or Steam chest: how connected to boiler — Can the superheater be shut off and the boiler workedseparately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivetholes — 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 —VERTICAL DONKEY BOILER—No. — Description — Manufacturers of steel —Made at — By whom made — When made — Where fixed — Working pressure —Tested by hydraulic pressure to — Date of test — No. of Certificate — Fire grate area — Description of safety valves —No. of safety valves — Area of each — Pressure to which they are adjusted — If fitted with easing gear — If steam from main boilers canenter the donkey boiler — Dia. of donkey boiler — Length — Material of shell plates — Thickness — Range of tensilestrength — Descrip. of riveting long. seams — Dia. of rivet holes — Whether punched or drilled — Pitch of rivets —Lap of plating — Per centage of strength of joint — Working pressure of shell by rules — Thickness of shell crown plates —Radius of do. — No. of Stays to do. — Dia. of stays — Diameter of furnace Top — Bottom — Length of furnace —Thickness of furnace plates — Description of joint — Working pressure of furnace by rules — Thickness of furnace crownplates — Radius of do. — Stayed by — Diameter of uptake — Thickness of uptake plates —Thickness of water tubes —

The foregoing is a correct description,

**HOWALDTSWERKE**

Manufacturer.

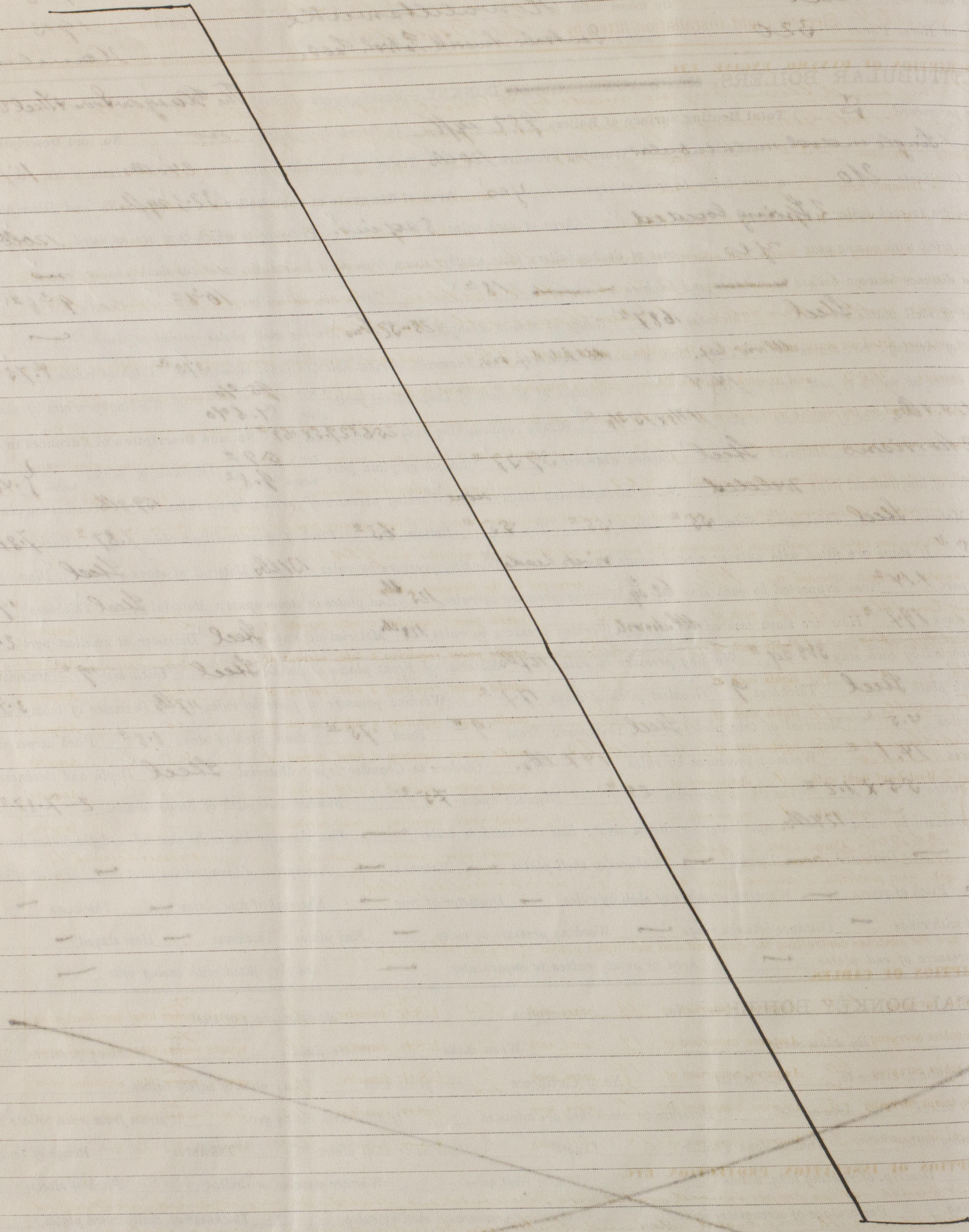
Dates 4, 4 1/2, 22 1/2, 10/3, 18/3, 1/4, 28/4, 7/5, 10/5, + 15/5, 1913  
 Survey while 20/6, 23/6, 4/7, 9/7 1913  
 Total No. of visits —

Is the approved plan of main boiler forwarded herewith —" " " donkey " " " sent fromLloyd's Register  
W1263 0182



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

This Donkey Boiler has been built under Special Survey in accordance with the approved plan, the workmanship and material are of best quality.  
For further particulars please see Main Report on His Vessel 1st Entry.



Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ... ..	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute

TUE. JUL. 22. 1913

Assigned See Minute on Main Rpt  
13501 attached

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



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Lloyd's Register Foundation

Rpt. 13.

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