

REPORT ON BOILERS.

No. 13501
MON. JUL. 21. 1913

Received at London Office

Date of writing Report 11th July 1913 When handed in at Local Office Kiel 19 July Port of Hamburg
 No. in Survey held at Kiel Date, First Survey 4th January Last Survey 9th July 19 13
 Reg. Book. on the Steel S.S. "Kiowa" (Number of Visits 14) } Gross
 } 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.

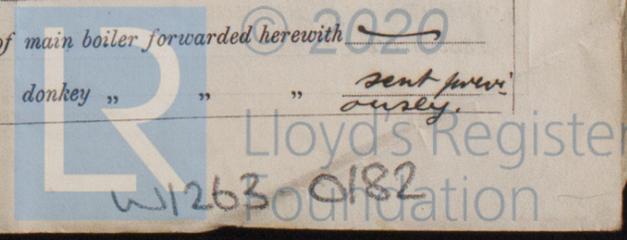
(Letter for record S) Total Heating Surface of Boilers 982 sqft Is forced draft fitted no No. and Description of Boilers 1 Single ended multitubular Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 15/5/13
 No. of Certificate 210 Can each boiler be worked separately yes Area of fire grate in each boiler 32.3 sqft No. and Description of safety 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 no
 Smallest 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 6.87" Range of tensile strength 28-32 Tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams all riv. lap. long. seams all bot. trip riv. Diameter of rivet holes in long. seams 8.75" Pitch of rivets 4.75"
 Lap of plates or width of butt straps 14.4" Per centages of strength of longitudinal joint rivets 95% Working pressure of shell by rules 124.4 lbs Size of manhole in shell 11 1/2 x 15 3/4" Size of compensating ring 256 x 29.5 x 16" No. and Description of Furnaces in each boiler 2 horizontal Material Steel Outside diameter 39.27" Length of plain part top 5.9" Thickness of plates crown 7.43" bottom 9.8"
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 159.8 lbs Combustion chamber plates: Material Steel Thickness: Sides 5.5" Back 5.5" Top 5.5" Bottom 6.3" 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 at smallest part 1.14" Area supported by each stay 62 sq. ins. 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 all riveted Working pressure by rules 128 lbs Material of stays Steel Diameter at smallest part 2.8" Area supported by each stay 358 sq. ins. Working pressure by rules 167 lbs Material of Front plates at bottom Steel Thickness 9" Material of Lower back plate Steel Thickness 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 9" Back 7.5" Mean pitch of stays 8.8" Pitch across wide water spaces 14.1" Working pressures by rules 147 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder 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 no Can the superheater be shut off and the boiler worked separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

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 can enter the donkey boiler
 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
 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 Rivets 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 crown plates
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

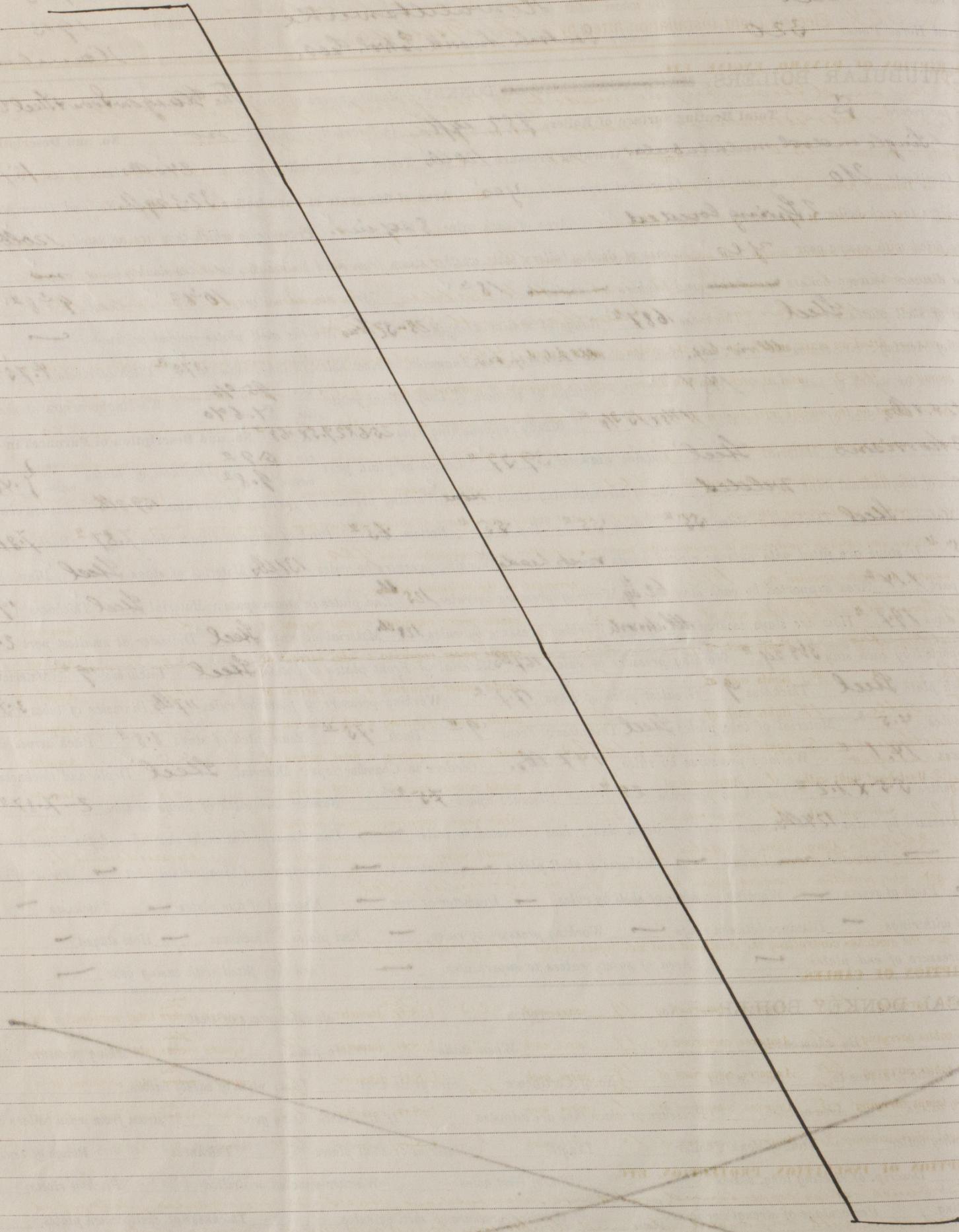
The foregoing is a correct description,
HOWALDTSWERKE Manufacturer.
J. H. H. Dege

Dates During progress of work in shops - - - 4, 4/2, 22/2, 10/3, 18/3, 1/4, 28/4, 7/5, 10/5, + 15/5, 1913
 Survey while on board vessel - - - 20/6, 23/6, 4/7, 9/7 1913
 Total No. of visits 14 Is the approved plan of main boiler forwarded herewith no
 " " " donkey " " sent prev.ously.



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 this 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

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

Committee's Minute
Assigned See Minute on Main Rpt
13501 attached

TUE. JUL. 22. 1913

Form No. 1A
Write "Bridge Sheer Strake" and "Upper Deck Sheer Strake" opposite the corresponding letter.
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Rpt. 13.
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