

# REPORT ON BOILERS.

No. 13625

MON. SEP. 22. 1913

Received at London Office

Date of writing Report 19<sup>th</sup> Sept 1913 When handed in at Local Office

Port of Hamburg

No. in Survey held at Kiel

Date, First Survey 4<sup>th</sup> Febr.

Last Survey 17<sup>th</sup> Sept 1913

Reg. Book.

on the Steel S.S. "Mohican"

(Number of Visits 19) Gross 5073 Tons Net 3026

Master W. Jäger

Built at Kiel

By whom built Howaldtswerke

When built 1913

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 Deutsche-Amerik. Petroleum 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 sq. ft. Is forced draft fitted no No. and Description of

Boilers Single end, multitubular Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 4.7.13

No. of Certificate 217 Can each boiler be worked separately — Area of fire grate in each boiler 32.3 sq. ft. No. and Description of

safety valves to each boiler 2 Spring loaded Area of each valve 8 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 18" and bunkers woodwork Mean dia. of boilers 10'6" Length 9'8"

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 lap, dbl. riv. long. seams dbl. flat. trip. riv. Diameter of rivet holes in long. seams .875" Pitch of rivets 4.75"

Lap of plates or width of butt straps 14.4" x .68" Per centages of strength of longitudinal joint 95% Working pressure of shell by

rules 124.4 lbs Size of manhole in shell 14 1/8" x 15 3/4" Size of compensating ring 20.6" x 29.5" x .68" No. and Description of Furnaces in each

boiler 2 Morrison's Material Steel Outside diameter 39.37" Length of plain part top 5.9" Thickness of plates bottom 9.8" crown } .43" bottom }

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 .63" Pitch of stays to ditto: Sides 7.87" Back 7.87"

Top 7.5" If stays are fitted with nuts or riveted heads rivet heads Working pressure by rules 131 lbs Material of stays Steel Diameter at

smallest part 1.14" Area supported by each stay 62.29" Working pressure by rules 25 lbs End plates in steam space: Material Steel Thickness .9"

Pitch of stays 19.7" How are stays secured dbl. riv. Working pressure by rules 128 lbs Material of stays Steel Diameter at smallest part 2.8"

Area supported by each stay 388 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 3.3"

Pitch of tubes 4.8" Material of tube plates Steel Thickness: Front .9" Back .75" 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 — 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 —

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,

**HOWALDTSWERKE**

Manufacturer.

*W. Dequ*

Dates of Survey 4/2, 10/3, 17/3, 14/4, 24/4, 7/5, 14/5, 23/5, 26/6, 18/6, 23/6, 4/7 Is the approved plan of boiler forwarded herewith no

During progress of work in shops —  
During erection on board vessel 9/8, 20/8, 27/8, 29/8, 11/9 + 17/9 1913.

Total No. of visits 19

## 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's 1st. Entry.*

Survey Fee ... £ : : When applied for 191

Travelling Expenses (if any) £ : : When received, 191

Committee's Minute TUE. SEP. 23. 1913

Assigned

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

