

REPORT ON BOILERS.

No. 13923

Received at London Office

WED. MAR. 18. 1914

Date of writing Report 12th March 1914 When handed in at Local Office

Port of Hamburg

No. in Survey held at

Kiel

Date, First Survey 17th Septbr.Last Survey 10th March 1914

Reg. Book.

32 Supp. on the Steel L. L.

Jupiter

(Number of Vistas 18)

Gross 10073

Net 5903

Master Dalland

Built at

Kiel

By whom built

Howaldtswerke

When built 1914

Engines made at

Kiel

By whom made

Howaldtswerke

When made 1914

Boilers made at

Kiel

By whom made

Howaldtswerke

When made 1914

Registered Horse Power 651

Owners Deutsch Amerikan. Petroleum Ges.

Port belonging to Hamburg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Koppers & Co., Mülheim

(Letter for record S) Total Heating Surface of Boilers 1345 sq. ft. 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 15.12.13

No. of Certificate 237 Can each boiler be worked separately yes Area of fire grate in each boiler 40 sq. ft. No. and Description of

safety valves to each boiler 2 Spring loaded Area of each valve 7.06 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 or uptakes and bunkers of woodwork 4 Mean dia. of boilers 11' 9 3/4" Length 10' 2 1/8"

Material of shell plates Steel Thickness 7/32" 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. butt. trip riv. Diameter of rivet holes in long. seams 9" Pitch of rivets 5.9"

Lap of plates or width of butt straps 12 1/2 X 7" Per centages of strength of longitudinal joint rivets 120% plate 84.6% Working pressure of shell by

rules 135.2 lbs. Size of manhole in shell 11.8 X 15.75" Size of compensating ring 26 X 30 X 3/4" No. and Description of Furnaces in each

boiler 2 Morrisons Material Steel Outside diameter 45.3" Length of plain part top 3" bottom 5" Thickness of plates crown 1/2" bottom 3/4"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 139 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 7.87" Back 7.87"

Top 7.87 X 7.87" If stays are fitted with nuts or riveted heads nuts riv. head Working pressure by rules 145.3 lbs. Material of stays Steel Diameter at

smallest part 1.13" Area supported by each stay 62 sq. in. Working pressure by rules 129 lbs. End plates in steam space: Material Steel Thickness 9/16"

Pitch of stays 21.7" How are stays secured 4 bolts each Working pressure by rules 25.5 lbs. Material of stays Steel Diameter at smallest part 3.06"

Area supported by each stay 470 sq. in. Working pressure by rules 16.5 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 163 lbs. Diameter of tubes 3.28"

Pitch of tubes 4.4" Material of tube plates Steel Thickness: Front 9" Back 7/8" Mean pitch of stays 8.88" Pitch across wide

water spaces 14.18" Working pressures by rules 145.5 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6 X 1.08" Length as per rule 26.75" Distance apart 7.5" Number and pitch of Stays in each 2-7.87"

Working pressure by rules 129.9 lbs. Superheater or Steam chest: how connected to boiler riveted Can the superheater be shut off and the boiler worked

separately no Diameter 35.4" Length 35.4" Thickness of shell plates 5/8" Material Steel Description of longitudinal joint: lap Diam. of rivet

holes 86 Pitch of rivets 8.16" 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

checked from "Ceda" The foregoing is a correct description,

Haw. Rpt. 42/13804 Howaldtswerke Manufacturer.

Dates of Survey During progress of work in shops 9/8, 11/9, 17/9, 21/10, 28/10, 7/11, 29/11, 11/12, 17/12, 13 Is the approved plan of boiler forwarded herewith sent previously

while building During erection on board vessel 29/12, 14/1, 21/1, 7/1, 15/1, 22/1, 29/1, 10/2, 24/2, 27/2, 5 Total No. of visits 20

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 the main Report on this Vessel's 1st Entry.

Survey Fee ... £ : : When applied for, 192

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

Committee's Minute FRI. MAR. 20. 1914

Assigned

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

