Rpt. 5a.

REPORT ON BOILERS.

No.

Received at London Office TUE. JAN. 20. 1914

Date of writing Report 7th Jan 1914 When handed in at Local Office 7th Jan. 1914 Port of Baltimore Md.

No. in Reg. Book. Survey held at Sparrows Pt. Md. Date, First Survey 7th February 1913 Last Survey 7th January 1914 (Number of Visits 57)

18 Suffn on the S. S. Washingtonian Tons { Gross 6650 Net 4066

Master J. B. Parse Built at Sparrows Pt Md. By whom built Maryland Steel Co When built 1914

Engines made at Sparrows Pt. Md. By whom made Maryland Steel Co When made 1914

Boilers made at " " " By whom made " " " When made 1914

Registered Horse Power 704 Owners American-Hawaiian S.S. Co Port belonging to New York.

MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY ~~OR DONKEY~~.—Manufacturers of Steel Lukens Ld S. Co.

(Letter for record S) **Total Heating Surface of Boilers** 1099.4 sq ft Is forced draft fitted No **No. and Description of Boilers** 1 Single Ended Scotch **Working Pressure** 215 Tested by hydraulic pressure to 323. Date of test 5.2.13

No. of Certificate 33 Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 36 sq ft No. and Description of safety valves to each boiler 2 Direct Spring Area of each valve 3.142 □" Pressure to which they are adjusted 215 lb.

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 or woodwork 18" Mean dia. of boilers 10'-0" Length 9'-6"

Material of shell plates Steel Thickness 1 1/32" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R.L long. seams T.R.B. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7 3/4" - 3 7/8"

~~Lap of plates or~~ width of butt straps 19" - 11 1/2" Per centages of strength of longitudinal joint rivets 84.5 plate 84.6 Working pressure of shell by rules 217 Size of manhole in shell 15" x 11" Size of compensating ring 31" x 27"

No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 40 1/8" Length of plain part top / bottom Thickness of plates crown 9/16" bottom

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 219 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 6 1/2" x 6 5/8" Back 6 3/4" x 6 3/4" Top 7" x 6 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 240 Material of stays Steel ~~Diameter~~ Effective at smallest part 1.47 □" Area supported by each stay 45.5 □" Working pressure by rules 294 End plates in steam space: Material Steel Thickness 1"

Pitch of stays 14" x 13" How are stays secured B. Nuts & Washers. Working pressure by rules 260 Material of stays Steel Diameter at smallest part 2 5/8"

Area supported by each stay 182 □" Working pressure by rules 294 Material of Front plates at bottom Steel Thickness 11/16" Material of Lower back plate Steel Thickness 11/16" Greatest pitch of stays 4 1/2" Working pressure of plate by rules 292 Diameter of tubes 2 3/4"

Pitch of tubes 3 3/4" x 4 7/16" Material of tube plates Steel Thickness: Front 11/16 & doubling Back 11/16" Mean pitch of stays 8 1/4" Pitch across wide water spaces 11" Working pressures by rules 260 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7" x 2" Length as per rule 27" Distance apart 7" Number and pitch of Stays in each 3 - 6 1/2"

Working pressure by rules 270 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,

Maryland Steel Company by S. Guggenheimer Superintendent Manufacturer.

Dates of Survey while building — During progress of work in shops: 1913 Feb. 7.25.28. March 3.5.6.14.20. April 2.3.8.11.14.15.18.21.22.25.29. May 1.6.9.12.13.16.19.21.23.27.28. June 2.3.6.9.10.11.13.18.20. July 14.17. 21.22.24.25.28.29. Aug 1.4.5. During erection on board vessel: Oct 21. Nov. 10.17. Dec 10.18. Jan 1914 - 2.7

Is the approved plan of boiler forwarded herewith No

Total No. of visits 57

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

This Auxiliary Boiler has been built under Special Survey in accordance with the Rules of this Society & the approved plans. The materials & workmanship are good. The Boiler is, in my opinion, eligible for record of Working pressure 215 lbs.

Survey Fee ... ... £ Please see Mach. Report When applied for, ... 191.....

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

H. A. Stewart

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

Committee's Minute FRI. FEB. 13. 1914

Assigned

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