

REPORT ON BOILERS.

Received at London Office

Date of writing Report 19... When handed in at London Office 19... Port of **NEW YORK**

No. in Reg. Book Survey held at **SCHENECTADY, N. Y.** Date, First Survey **May 13th,** Last Survey **June 22nd, 1942**

on ~~2~~ **One Boiler of U.S. Navy Contract Nos. LL-97320 for 20 Boilers** (Number of Boilers **14**)

Gross Tons }
Net Tons }

Built at - By whom built - Yard No. - When built -

Engines made at - By whom made - Engine No. - When made -

Boilers made at **Schenectady, N.Y.** By whom made **American Locomotive Co.** Boiler No. # **14** Working Pressure **G.O. 270000** When made **1940**

Nominal Horse Power - Owners **British Government** Port belonging to -

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY

If note state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

Manufacturers of Steel **Bethlehem Steel Co. & Worth Steel Co.** (Letter for Record **S**)

Total Heating Surface of Boilers **2380 sq.ft.** Is forced draught fitted **Yes** Coal or Oil fired **Coal**

No. and Description of Boilers **One (1) Scotch Type** Working Pressure **220 lbs.**

Tested by hydraulic pressure to **380 lbs.** Date of test **June 22, 1942** No. of Certificate **S-104** Can each boiler be worked separately **Yes**

Area of Firegrate in each boiler **43 sq.ft.** No. and Description of Safety valves to each boiler

Area of each set of valves per boiler }
per Rule }
as fitted } Pressure to which they are adjusted } Are they fitted with easing gear }

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork }
oil fuel carried in the double bottom under boilers }

Smallest distance between shell of boiler and tank top plating }
Is the bottom of the boiler insulated }

Largest internal diameter of boiler **14' 6-3/16"** Length **11' 8-1/32"** Shell plates: Material **Steel** Tensile strength **65000/75000 lbs.**

Thickness **1-13/32"** Are the shell plates welded or flanged **No** Description of riveting: circ. seams }
end }
inter. } **Double lap.**

Long. seams: **T.R.D.B.S.** Diameter of rivet holes in }
circ. seams: **1 1/2"** Pitch of rivets: }
long. seams: **1 1/2"** } **5" and 10"**

Percentage of strength of circ. end seams }
plate } **None**
rivets } **41 1/2"**

Percentage of strength of longitudinal joint }
plate } **85**
rivets } **93.5**
combined } **88.7**

Thickness of butt straps }
outer: **1-3/32"**
inner: **1-7/32"**

No. and Description of Furnaces in each Boiler **3 Morrison**

Material **Steel** Tensile strength **58000/68000 lbs.** Smallest outside diameter **41 1/2"**

Length of plain part }
top: **9-3/16"** Thickness of plates }
bottom: **9-3/16"** crown } **21/32"** Description of longitudinal joint **Welded**
bottom: **21/32"**

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material **Steel** Tensile strength **58000/68000 lbs.** Thickness **1-7/16"** Pitch of stays **21 1/2" x 21"**

How are stays secured **Double nuts.**

Tube plates: Material }
front: **Steel** Tensile strength } **58000/68000 lbs.** Thickness } **31/32"**
back: **Steel** } **58000/68000 lbs.** } **13/16"**

Mean pitch of stay tubes in nests **10"** Pitch across wide water spaces **14 1/2" x 8 1/2"**

Girders to combustion chamber tops: Material **Steel** Tensile strength **65000/75000 lbs.** Depth and Thickness of girder

at centre **10-1/4" x 1-3/4"** Length as per Rule **2' 10"** Distance apart **11"** No. and pitch of stays

in each **3** **7-5/8"**

Combustion chamber plates: Material **Steel**

Tensile strength **58000/68000 lbs.** Thickness: Sides **25/32"** Back **23/32"** Top **25/32"** Bottom **25/32"**

Pitch of stays to divots: Sides **9" x 10-3/16"** Back **9" x 9"** Top **11" x 7-5/8"** Are stays fitted with nuts or riveted over **Nuts**

Front plate at bottom: Material **Steel** Tensile strength **58000/68000 lbs.**

Thickness **31/32"** Lower back plate: Material **Steel** Tensile strength **58000/68000 lbs.** Thickness **29/32"**

Pitch of stays at wide water space **14 1/2" x 9"** Are stays fitted with nuts or riveted over **Nuts on margin stays, balance riveted over.**

Main stays: Material **Steel** Tensile strength **60000/70000 lbs.**

Diameter }
(At body of stay) **3 1/2"** No. of threads per inch **Six (6)**
or }
(Over threads) **3-3/4"**

Screw stays: Material **Steel** Tensile strength **58000/68000 lbs.**

Diameter }
(At turned off part) **1-3/4", 1-7/8", 2", 2-1/8"** No. of threads per inch **Nine (9)**
or }
(Over threads) **1-3/4", 1-7/8", 2", 2-1/8"**



