

REPORT ON BOILERS.

THU. MAR 7 2 16 58 No. 72658

Rpt. 5a.

Received at London Office

Date of writing Report 28-9-14 1914 When handed in at Local Office 2-10-14 1914 Port of Philadelphia, Pa. U.S.A.

No. in Survey held at Phoenixville, Pa. Date, First Survey 16th May 1916. Last Survey 28th Sept 1914.

Req. Book. on the Water tube boilers for Foxe River & B.C. No. 264. (Number of Visits 35) Gross Tons Net

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Phoenixville By whom made Heine Boiler Works. When made 1914.

Registered Horse Power Owners Port belonging to

WATER TUBE MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Worth Bros. Coatesville, Pa.

(Letter for record) Total Heating Surface of Boilers = 15520 sq ft Is forced draft fitted Yes. No. and Description of Boilers 4 Heine Water Tube Working Pressure 225 Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler Oil fired No. and Description of safety valves to each boiler 2 direct spring 3 1/2" dia. Area of each valve 9.621 sq in Pressure to which they are adjusted

Are they fitted with easing gear Yes. 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 Mean dia. of boilers 4'-6 1/16" Length 14'-4"

Material of shell plates S Thickness 3/16 Range of tensile strength 55000-73000 Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams TRDBS long. seams DL Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 4 3/4"

Top of plates or width of butt straps 18 1/2" 0.1176 Per centages of strength of longitudinal joint rivets 111 Working pressure of shell by rules 294 Size of manhole in shell 11" x 15" Size of compensating ring flanged, plate 86.3

boiler Material Outside diameter Length of plain part Thickness of plates crown bottom

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Area at smallest part

Pitch of stays How are stays secured DISHED ENDS Working pressure by rules 225 Material of stays S Area at smallest part 1.445

Area supported by each stay 4 3/8" x 4 1/4" Working pressure by rules 418 Material of front plates at bottom S Thickness 3/4" Material of

Lower back plate Thickness Greatest pitch of stays 4 3/8" x 4 1/4" Working pressure of plate by rules 408 Diameter of tubes 3 1/2" OD.

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

girder at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATERS Type Heine Date of Approval of Plan 31-5-16. Tested by Hydraulic Pressure to 450.

Date of Test 6-9-14, 14-9-14, 18-9-14. Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2" DIA. Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

"HEINE SAFETY BOILER CO., PHOENIXVILLE SHOPS."

W. Edw. J. Heilman

Manufacturer.

Dates of Survey: During progress of work in shops - 12.4.18, 4.26.24, 3.5.10, 5.17.5, 24.5.5, 6.11.6, 2.16.25, 6.5.7, 12.7. Is the approved plan of boiler forwarded herewith
while building board vessel - 19.7.26, 7.13.8, 22.8.6, 9.18.9, 25.9.

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) The boilers have been constructed under special survey, in accordance with the approved plan. The materials and workmanship are good.

Survey Fee ... £ : : When applied for, 191
Travelling Expenses (if any) £ \$24.00 : : When received, 191

Committee's Minute New York FEB 19 1918

Assigned See other report Bot. No 981.

J. A. Avey
Engineer Surveyor to Lloyd's Register of Shipping.