

REPORT ON BOILERS.

No. 3116

WED. JUL. 28 1920

Received at London Office

Date of writing Report Jan 9 1919 When handed in at Local Office

Port of Philadelphia Pa.

No. in Survey held at Phoenixville Pa. Date, First Survey November 1-1918 Last Survey December 23 1918  
Reg. Book. 5772 on the Four main Boilers for motor S.B. Co. San Francisco, Cal. (Number of Visits Fifteen) Gross 3160 Tons Net 1917  
Master Capt. Lorentz Built at Wabco. W. By whom built Grap Norton Trustship Co. When built 1919-6.  
Engines made at D.C. & Co. By whom made Genue Motors Co. When made 1918  
Boilers made at Phoenixville Pa. By whom made Heine Safety Boiler Co. When made 1918  
Registered Horse Power 1520 S.H.P. Owners U.S. Shipping Board. Port belonging to Seattle W.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Luker Steel Co.

(Letter for record S) Total Heating Surface of Boiler 2783 sq. ft. Is forced draft fitted No. and Description of Boilers Four main (Heine) Boilers Working Pressure 225 Tested by hydraulic pressure to 460 Date of test 16-12-18

No. of Certificate 270 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler

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 Mean dia. of boilers 3'-6 1/2" Length 8'-4 1/2"

Material of shell plates S Thickness 3/32 Range of tensile strength 60000 lb. Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams Single long. seams B.R.D.B.S. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 2 1/3 x 4 1/2

Lap of plates or width of butt straps 1-17" 0-18" Per centages of strength of longitudinal joint rivets 71.2 Working pressure of shell by plate 81.0

rules 230 Size of manhole in shell 11" x 15" Size of compensating ring flanged No. and Description of Furnaces in each boiler

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules  
plates: Material S Thickness: Front and Back 13/32 Top and Bottom 7/32 Pitch of stays to ditto: Front and Back 3 3/8 x 7 1/4

Top If stays are fitted with nuts or riveted heads riveted Working pressure by rules 247 Material of stays S Diameter at smallest part 1 1/16 Area supported by each stay 39 sq. in. Working pressure by rules 227 End plates in steam space: Material S Thickness 5/8

Pitch of stays How are stays secured Dished Working pressure by rules 225 Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

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 Superheater or Steam chest: how connected to boiler Pipes Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates 5/8 Material S Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates 5/8 Thickness 5/8

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 stamped 233 Are they fitted with easing gear

The foregoing is a correct description, Heine Safety Boiler Co. Manufacturer.

Dates of Survey During progress of work in shops - - - 14, 15, 22, 23, 27 (4, 6, 9, 11, 13, 16, 23) Is the approved plan of boiler forwarded herewith retained

while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers & Superheaters have been made under special survey & are in accordance with the Rules of the Society. The materials & workmanship are, so far as can be seen, satisfactory & the boilers & superheaters have been shipped to San Francisco to be installed in the vessel & the local surveyors advised to complete the survey thereon.

Credit Phila. with 1/3 mark fu Survey Fee ... : When applied for, 191 Travelling Expenses (if any) £10 : : When received, 191

Committee's Minute Assigned See Sea Rpt 971

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