





Working pressure by Rules --- Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1.856"  
or 2"  
Over threads

No. of threads per inch 9 Area supported by each stay --- Working pressure by Rules ---

Tubes: Material O.H. Steel External diameter { Plain 3"  
Stay 3" Thickness { .16"  
3/8" & 5/16" No. of threads per inch 9

Pitch of tubes 4-1/8" x 4-1/4" Working pressure by Rules --- Manhole compensation: Size of opening in end ---

~~xxx~~ plate 16" x 12" Section of compensating ring --- No. of rivets and diameter of rivet holes ---

Outer row rivet pitch at ends --- Depth of flange if manhole flanged 4 1/2" Upper Lower 3 1/2" Steam Dome: Material ---

Tensile strength --- Thickness of shell --- Description of longitudinal joint ---

Diameter of rivet holes --- Pitch of rivets --- Percentage of strength of joint { Plate ---  
Rivets ---

Internal diameter --- Working pressure by Rules --- Thickness of crown --- No. and diameter of stays ---

How connected to shell --- Inner radius of crown --- Working pressure by Rules ---

Size of doubling plate under dome --- Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell ---

Type of Superheater "ELESCO" Smoke Box Type Manufacturers of { Tubes ( National Tube Co.  
Steel forgings Pittsburg, Penna.  
Steel castings ---

Number of elements 58 Material of tubes S.D. Steel Internal diameter and thickness of tubes .69" .095" (B.B.W.G.)  
min.

Material of headers O.H. Steel Tensile strength 33.5 tons Thickness 1-1/8" Can the superheater be shut off and the boiler be worked separately No Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes

Area of each safety valve 1.75 sq. in. Are the safety valves fitted with easing gear Yes Working pressure as per Rules 220 lbs. persq.in. Pressure to which the safety valves are adjusted --- Hydraulic test pressure: tubes 1500 lbs. per sq. inch forgings and castings 550 lbs. and after assembly in place steam test Are drain cocks or valves fitted to free the superheater from water where necessary Yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,  
*Dominion Bridge & Pile*  
*J. J. Ross* Manufacturer.

1942  
Dates of Survey { During progress of work in shops - Nov. 21, 26, 27, 29; Dec. 2, 5, 8,  
while building { During erection on board vessel - Dec. 18, 21, 22, 23, 24, 28, 29, 30.  
Jan. 2, 6, 7, 8, 11, 13, 14, 15, 17,  
18, 19, 20, 21, 22.

Are the approved plans of boiler and superheater forwarded herewith in U.K.  
(If not state date of approval.)

Total No. of visits 29

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. S.S. "FORT ST. JAMES". Ver. Rpt. 5718

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

These boilers have been constructed under special survey of tested materials in accordance with the approved plans, New York letters and otherwise in conformity with the Society's Rules. On completion the boilers were satisfactorily tested under hydraulic pressure to 380 lbs. per square inch. They were fitted on board under special survey, examined under working conditions, safety valves adjusted under steam to the working pressure and a satisfactory accumulation test carried out.

Cross seam of both end plates is fusion welded by Union Melt Process, stress relieved and X-Rayed under survey; Certificate attached. Welds ground flush both sides of plate. Combustion chamber wrapper plates welded to back tube plate and combustion chamber back plate; wrapper plate butts also welded, all hand welding and ground flush and tested as per Rule

Survey Fee \$150.00 When applied for 22nd Jan. 19 43  
Travelling Expenses (if any) \$ 15.00 When received ✓ 19

*R. Knox* *W. E. Baillie*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 1 FEB 1944

Assigned Lee J. Mackay



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Foundation