

REPORT ON BOILERS.

No. 4376

MON. APR. 29. 1922

Date of writing Report MAY 5th 1922. When handed in at Local Office MAY 5th 1922. Port of PHILADELPHIA.
 No. in Survey held at PHILADELPHIA Date, First Survey Aug. 10th 1921. Last Survey MAY 4th 1922.
 Reg. Book. — on the TWIN SCREW MOTOR VESSEL "CALIFORNIAN" (Number of Visits 14).
 Master WM. LYONS Built at CHESTER, PA. By whom built MERCHANT S. B. CORP. Tons { Gross 7899
 Boilers made at PHILADELPHIA By whom made THE WM. CRAMP & SONS S. & E. B. CO. When built 1922.
 Owners AMERICAN-HAWAIIAN S. S. CO. When made 1922.
 Port belonging to NEW YORK.

VERTICAL DONKEY BOILER— No. ONE Description VERTICAL Manufacturers of steel WORTH STEEL CO.
 Made at PHILADELPHIA By whom made THE WM. CRAMP & SONS S. & E. B. CO. When made 1922. Where fixed ENG. ROOM. Working pressure 150 lbs.
 tested by hydraulic pressure to 275 1/2 Date of test 2-12-21 No. of Certificate 531 Fire grate area 9.62 Description of safety valves SPRING LOADED
 No. of safety valves ONE Area of each 4.90 Pressure to which they are adjusted 100 lbs. If fitted with easing gear YES. If steam from main boilers can
 enter the donkey boiler — Dia. of donkey boiler 4'-6" Length 11'-8" Material of shell plates 0.4 STEEL Thickness 17" Range of tensile
 strength 28.32 Descrip. of riveting long. seams D. R. LAP Dia. of rivet holes 15" Whether punched or drilled DRILLED Pitch of rivets 2.86
 Lap of plating 4 3/8" Per centage of strength of joint Rivets 77.01 Working pressure of shell by rules 158.8 lbs. Thickness of shell crown plates 11"
 Plates 67.31 Radius of do. — No. of Stays to do. — Dia. of stays — Diameter of furnace Top 3'-10" Bottom 4'-6" Length of furnace 4'-5"
 Thickness of furnace plates 1/2" Description of joint WELDED Working pressure of furnace by rules 156 lbs. Thickness of furnace crown
 plates 9/16" Radius of do. — Stayed by TUBES. Diameter of uptake — Thickness of uptake plates —
 Thickness of FIRE tubes # 13 B.W.G.

The foregoing is a correct description,
John F. Miller Manufacturer.
 Chief Engineer.

Dates { During progress of work in shops - - 1921. Aug. 10, 15. Sep. 12. Oct. 19, 20, 31. Nov. 1-15-30. Dec. 2.
 of Survey { During erection on board vessel - - 1922. JAN. 31. FEB. 17. MAR. 21. APR. MAY 4th
 while building { Total No. of visits 14.
 Is the approved plan of boiler forwarded herewith NO.

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

THE BOILER HAS BEEN BUILT UNDER SPECIAL SURVEY, THE STEEL TESTED IN
 ACCORDANCE WITH THE RULES & THE BOILER BUILT IN ACCORDANCE WITH THE
 APPROVED PLAN, THE MATERIALS & WORKMANSHIP ARE OF GOOD DESCRIPTION,
 THE BOILER WAS TESTED BY HYDRAULIC PRESSURE TO ONE & ONE HALF TIMES
 THE WORKING PRESSURE PLUS 50 lbs. AND WAS FOUND TIGHT & SOUND IN
 EVERY RESPECT. THE SAFETY VALVES WERE ADJUSTED TO 100 lbs. per sq.
 inch (BY REQUEST) IT HAS BEEN SATISFACTORILY SECURED ON BOARD.

Survey Fee ... 25.00 : When applied for, may 5 1922
 Travelling Expenses (if any) — : When received, — 19

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

Committee's Minute

Assigned

New York MAY 16 1922

See Phila 4376 Mchg Rpt.