

REPORT ON BOILERS.

28 JAN 1933

Date of writing Report Dec. 30th 1932 When handed in at Local Office 191 Port of SAN FRANCISCO,

No. in Survey held at San Francisco, Cal. Date, First Survey November 15th Last Survey December 12th 1932

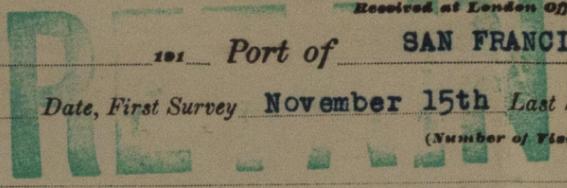
Reg. Book. 58357 on the Steel Twin Screw M. S. "BEULAH" (Number of Visits 12) } Gross 1389
 Tons } Net 1042

Master - Built at Fevig By whom built Randolph A/S Skibs When built 1923 - 3

Engines made at Stockholm By whom made J. & C. G. Bolinders Co. Ltd. When made 1923

Boiler made at San Francisco By whom made Eureka Boiler Works When made 1914.

Registered Horse Power - Owners Carriso, Inc. Port belonging to PANAMA.



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

Number for record S.B. Total Heating Surface of Boilers 837 Is forced draft fitted No. No. and Description of Boilers 1 Donkey Boiler Multitubular Working Pressure 150 Tested by hydraulic pressure to 225 Lbs Date of test 7-12-32

Can each boiler be worked separately - Area of fire grate in each boiler - No. and Description of

Valves to xxx boiler 1 - 3" Spring Loaded. Area of xxx valve 7.06 sq.in. Pressure to which they are adjusted 125 ✓
 they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No. ✓

Smallest distance between boilers or uptakes and bunkers or woodwork -- Mean dia. of boilers 96" 8'-0" Length 9'-6" ✓
 Material of shell plates Steel Thickness 11/16" Range of tensile strength 58000-60000 Are the shell plates welded or flanged --

Direction of riveting: cir. seams --- long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 3 1/2"
 Width of plates or width of butt straps 12" & 18" Per centages of strength of longitudinal joint rivets 141% Working pressure of shell by plate 87%

Size of manhole in shell 11 x 15 Size of compensating ring -- No. and Description of Furnaces in each 1 Morrison ✓
 Material Steel Outside diameter 44" Length of plain part --- Thickness of plates 1/2" ✓

Description of longitudinal joint Welded ✓ No. of strengthening rings - Working pressure of furnace by the rules 163 Combustion chamber
 Material Steel Thickness: Sides 1/2" Back 1/2" Top 5/8" Bottom 1/2" Pitch of stays to ditto: Sides 6" Back 6" ✓

If stays are fitted with nuts or riveted heads Riveted ✓ Working pressure by rules 156 Material of stays Steel ✓ Area at
 smallest part 1.2 sq.in. Area supported by each stay 36sq." Working pressure by rules 221 End plates in steam space: Material Steel Thickness 5/8" ✓

Number of stays 15 ✓ How are stays secured D. Nuts ✓ Working pressure by rules 196 Material of stays Steel ✓ Area at smallest part 4.9" ✓
 Area supported by each stay 225 Working pressure by rules 252 Material of Front plates at bottom Steel Thickness 5/8" ✓

Material of back plate Steel ✓ Thickness 5/8" Greatest pitch of stays - Working pressure of plate by rules - Diameter of tubes 2-1/2" ✓
 Diameter of tubes 3 1/2" x 3 1/2" Material of tube plates Steel Thickness: Front 5/8" Back 9/16" Mean pitch of stays 3 1/2" Pitch across wide

spaces -- Working pressures by rules 156 Girders to Chamber tops: Material Steel ✓ Depth and thickness of
 at centre 8" x 3/4" ✓ Length as per rule 30" ✓ Distance apart 7 1/2" ✓ Number and pitch of Stays in each 3 - 7 1/2" ✓

Working pressure by rules 243 Steam dome: description of joint to shell -- % of strength of joint --
 Thickness of shell plates -- Material -- Description of longitudinal joint -- Diam. of rivet holes --

Working pressure of shell by rules -- Crown plates -- Thickness -- How stayed --

Superheater. Type -- Date of Approval of Plan -- Tested by Hydraulic Pressure to --
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler --

Pressure to which each is adjusted -- Is Easing Gear fitted --
 The foregoing is a correct description,
 Careta Eureka Boiler Works Co Manufacturer.
 per Edward T. Brady

Is the approved plan of boiler forwarded herewith Yes.
 Total No. of visits Twelve.

During progress of work in shops - - -
 During erection on board vessel - - - Nov. 15, 22, 23, 28, 30, Dec. 1, 2, 5, 6, 7, 10 & 12.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler was made by the Eureka Boiler
Works, of San Francisco, and material and workmanship tested and examined by the U. S. Steamboat
Inspectors. Same has now been examined and found to comply with the Rules and the approved plan;

Workmanship and material are good and this Boiler is in good and safe working condition and
is in my opinion to receive notation of 150 lbs. in the Register Book, subject to being exam-
ined annually and two 2 1/2" safety valves being fitted on Vessel's return to this Port in about three
months.

Survey Fee ... \$ (SEE RPT. When applied for, Dec. 31st 1932.)
 Travelling Expenses (if any) £ (9. FOR FEES.) When received, 191

Committee's Minute NEW YORK JAN 18 1933
 Assigned D.B. made 1914 - fitted 12.32
 Engineer Surveyor to Lloyd's Register of Shipping.

Assigned D.B. made 1914 - fitted 12.32
 Working Pressure 150 lbs

