

REPORT ON BOILERS.

REC'D NEW YORK August 16, 1917 Received at London Office

Date of writing Report Aug. 10, 1917 When handed in at Local Office 19 Port of SAN FRANCISCO,

No. in Survey held at Alameda, California. Date, First Survey January 31st, Last Survey July 27th, 1917. Reg. Book. (Number of Visits Nine.)

on the S. S. "DICTO" (Union Iron Works Co.'s S/S No. 17.) Tons Gross 3892.07 Net 2491.61

Master E. Gabrielsen. Built at Alameda, Cal. By whom built Union Iron Works Company When built 1917

Engines made at Schenectady, N.Y. By whom made General Electric Co. when made 1917

Boilers made at San Francisco, Cal. By whom made Union Iron Works Company when made 1917

Registered Horse Power 400 Owners B. Stolt-Nielsen. Port belonging to Haugesund, Norway.

MULTITUBULAR BOILERS ~~MANUFACTURED BY DONKEY~~—Manufacturers of Steel Worth Bros., Philadelphia.

(Letter for record) Total Heating Surface of Boilers 674 Sq. ft. Is forced draft fitted No. No. and Description of

Boilers Multitubular Scotch type. Working Pressure 180 lbs Tested by hydraulic pressure to 270 lbs Date of test May 29th

No. of Certificate 84 Can each boiler be worked separately - Area of fire grate in each boiler 24 Sq. ft. No. and Description of

safety valves to each boiler One spring loaded. Area of each valve 7.06 Sq. in. Pressure to which they are adjusted 125 lbs.

Are 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 9'27/32" Length 9'0"

Material of shell plates Steel. Thickness 27/32 Range of tensile strength 60,000 to 71,680 Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D.R.L. long. seams TR DBS Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6 7/16"

Lap of plates or width of butt straps 14" Per centages of strength of longitudinal joint rivets 96.7 Working pressure of shell by plate 85.4

rules 189.9 lbs Size of manhole in shell 16" x 12" Size of compensating ring Flanged. No. and Description of Furnaces in each

boiler 2 Mor. Corrugated Steel. Outside diameter 32-7/8" Length of plain part top - Thickness of plates crown 7/16" bottom -

Description of longitudinal joint Welded. No. of strengthening rings - Working pressure of furnace by the rules 191# Combustion chamber

plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 7 1/2 x 7 1/2" Back 7 1/2 x 7"

Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads Riv. heads. Working pressure by rules 196# Material of stays steel Area at

smallest part 1.76 Sq. in. Area supported by each stay 52.5 Sq. in. Working pressure by rules 268# End plates in steam space: Material Steel Thickness plus 13/16"

Pitch of stays 17.6 How are stays secured Dble. nuts Working pressure by rules 190# Material of stays Steel. Diameter at smallest part 2-7/8"

Area supported by each stay 310 Sq. in. Working pressure by rules 282# Material of Front plates at bottom Steel Thickness 3/4" Material of

Lower back plate Steel Thickness 3/4" Greatest pitch of stays 7 1/2" Working pressure of plate by rules 283# Diameter of tubes 3"

Pitch of tubes 4" Material of tube plates Steel Thickness: Front 3/4" Back 13/16" Mean pitch of stays 10" Pitch across wide

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

girder at centre 9" x 1 1/2" Length as per rule 29-5/8" Distance apart 8" Number and pitch of Stays in each 3-7 1/2"

Working pressure by rules 242 Superheater or Steam chest, how connected to boiler - Can the superheater be shut off and the boiler worked

separately - Diameter Length - Thickness of shell plates - Material Description of longitudinal joint Diam. of rivet

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

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 Are they fitted with easing gear

The foregoing is a correct description, UNION IRON WORKS COMPANY, By [Signature] Engineer in Chief Manufacturer.

Dates of Survey: During progress of work in shops - Jan. 31, Feb. 5, Mar. 5, 22, Apr. 11, May 29. Is the approved plan of boiler forwarded herewith Yes. while building: During erection on board vessel - June 11, 16, July 27. Total No. of visits Nine.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This boiler was built under Special Survey of materials tested to rule requirements, and workmanship found sound throughout. On completion the boiler was tested under hydrostatic pressure to 270 lbs. and found sound. After installation in vessel the safety valve was adjusted as above. An accumulation test was taken with satisfactory results.

Survey Fee ... £ - : : When applied for, ... 19. Travelling Expenses (if any) £ - : : When received, ... 19.

[Signature] Blakett & [Signature] Balchett Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute New York AUG 21 1917 Assigned See other report

