

REPORT ON BOILERS.

No. 2505

Received at London Office

29 SEP '934

Date of writing Report

10

When handed in at Local Office

10

Port of Seattle, Washington.

No. in Survey held at Seattle, Washington.

Date, First Survey May 23rd

Last Survey Aug 27th 19 34

Reg. Book.

(Number of Visits 8)

Tons } Gross
Net

3647 on the S.S. "WILLIAM LUCKENBACH" ex "Rappahannock" ex "Pommern"

Master Built at Vegesack By whom built Bremer Vulkan. When built 1913

Engines made at Vegesack By whom made Bremer Vulkan When made 1913

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

Registered Horse Power Owners Luckenbach Steamship Co. Inc., Port belonging to New York

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Worth Steel Co. Del. U.S.A.

(Letter for record) Total Heating Surface of Boilers 8265 sq.ft. Is forced draft fitted Yes No. and Description of P. 25/6/34

Boilers 3 Single End Scotch Working Pressure 220lbs Tested by hydraulic pressure to 330lbs Date of test S. 9/7/34

No. of Certificate - Can each boiler be worked separately Yes Area of fire grate in each boiler 55 sq.ft No. and Description of C. 9/7/34

safety valves to each boiler 2-Spring Loaded Area of each valve 11.79 in. Pressure to which they are adjusted 320lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ---

Smallest distance between uptakes and bunkers or woodwork 14 in. Mean dia. of boilers 15 ft. 3 in. Length 11 ft. 9 in.

Material of shell plates Steel Thickness 1-11/16 Range of tensile strength 60,000 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1-9/16 Pitch of rivets 10 in.

Width of butt straps 22-3/8" Per centages of strength of longitudinal joint rivets 77.3% Working pressure of shell by plate 65.6%

rules 250lbs. Size of manhole in 13"x 16" Size of compensating ring --- No. and Description of Furnaces in each

boiler 3. Cor. Material Steel Outside diameter 48-1/16" Length of plain part top --- Thickness of plates crown 21/32"

Description of longitudinal joint Weld No. of strengthening rings -- Working pressure of furnace by the rules 222.7 Combustion chamber

plates: Material Steel Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 15/16" Pitch of stays to ditto: Sides 6 3/4 x 7 7/8 Back 7 7/8 x 7 9/16

Top 6 x 8 If stays are fitted with nuts or riveted heads R.H. Working pressure by rules 223lbs Material of stays Steel Area at

smallest part 1.75 Area supported by each stay 54.5 Working pressure by rules 258 End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 17-1/8 How are stays secured D.N. Working pressure by rules 243 Material of stays Steel Area at smallest part 8.946

Area supported by each stay 278.2 Working pressure by rules 243 Material of Front plates at bottom Steel Thickness 15/16 Material of

Lower back plate Steel Thickness 13/16 Greatest pitch of stays 15" Working pressure of plate by rules 260 Diameter of tubes 4 3/4 & 3

Pitch of tubes 3 - 4 1/8 Material of tube plates Steel Thickness: Front 15/16" Back 7/8" Mean pitch of stays 8 1/4" Pitch across wide

water spaces 13" Working pressures by rules 233lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 13 x 3/4 DbL Length as per rule 34" Distance apart 8" Number and pitch of Stays in each 4 x 6 3/4

Working pressure by rules 345 Steam dome: description of joint to shell --- % of strength of joint ---

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

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

UPERHEATER. Type Locomotive Date of Approval of Plan ----- Tested by Hydraulic Pressure to 330lbs.

Date of Test Jun. 25. & Jly 9. 1934 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 223 Lbs. Is Easing Gear fitted Yes

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes The foregoing is a correct description,

Manufacturer.

Dates { During progress of
Survey { work in shops --
while { During erection on
building { board vessel --
Total No. of visits

See Machinery Report.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

008812 - 008822 - 0153

© 2021

Lloyd's Register
Foundation

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

The three boilers (after) stated to have been built and installed on board this vessel in 1917 and built to plans approved Feb. 8th 1917 and of materials tested by the Society's Surveyors. The boilers have been fully examined and found in good condition, scantlings checked by drilling, etc., and found in accordance with the plan herewith. The workmanship throughout is good.

The three boilers and their superheaters have been tested out under a hydraulic pressure of 330 lbs at this time and found sound and tight and in the opinion of the undersigned they are eligible to be classed in the Register Book.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	:	:	When applied for.
Special £	:	:19.....
Donkey Boiler Fee £	:	:	When received.
Travelling Expenses (if any) £	:	:19.....

Committee's Minute NEW YORK SEP 20 1934

Assigned See Machy. Rpt form 9
+ NB (af) made & fitted '17

W. P. Smith
Engineer Surveyor to Lloyd's Register of Shipping



© 2021

Lloyd's Register
Foundation