

Rpt. 5.

# REPORT ON BOILERS.

No. 57<sup>a</sup>

Received at London Office

WED. 14 JUN. 1916

Date of writing Report

When handed in at Local Office

19

Port of

Cleveland, Ohio

No. in Survey held at

Buffalo, N. Y.

Date, First Survey

Last Survey

19

Reg. Book.

S.S. "CLUBDIST"

(Number of Visits)

Tons

Gross

Net

on the

Master

Built at

Amity

By whom built

Lake Erie S. B. Corp.

When built

Engines made at

Amity

By whom made

Lake Erie S. B. Corp.

when made

Boilers made at

Buffalo

By whom made

Lake Erie Boiler Works

when made

1915

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel

Worth Bros

(Letter for record S.) Total Heating Surface of Boilers 7407 sq ft Is forced draft fitted

No. and Description of

Boilers 3 single ended Working Pressure 190 lbs

Tested by hydraulic pressure to 285 Date of test 18.10.15

No. of Certificate 48 Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers 14' 2" Length 11' 10"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28/32

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. Riv. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8"

Lap of plates or width of butt straps 18 1/2" Per centages of strength of longitudinal joint rivets 96.9 Working pressure of shell by plate 83.6

rules 201 lbs Size of manhole in shell 12" x 16" Size of compensating ring flanged end No. and Description of Furnaces in each

boiler 3 corrugated Material Steel Outside diameter 48 1/2" Length of plain part top 19" Thickness of plates bottom 32"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 196 Combustion chamber

plates: Material Steel Thickness: Sides 4 1/4" Back 5/8" Top 4 1/4" Bottom 1 1/2" Pitch of stays to ditto: Sides 7 1/2" x 6 3/4" Back 7" x 7 1/4"

Top 7 1/4" x 7 1/2" If stays are fitted with nuts or riveted heads Riv 4 1/2" Working pressure by rules 193 Material of stays Steel Diameter at

smallest part 1.582 Area supported by each stay 54.3 Working pressure by rules 202 End plates in steam space: Material Steel Thickness 6 1/4"

Pitch of stays 15" x 15 1/2" How are stays secured D. N. 10 1/2 Working pressure by rules 200 Material of stays Steel Diameter at smallest part 4.9

Area supported by each stay 232.5 Working pressure by rules 219 Material of Front plates at bottom Steel Thickness 1 1/2" Material of

Lower back plate Steel Thickness 1 1/2" Greatest pitch of stays 12" x 7" Working pressure of plate by rules 233 Diameter of tubes 2 1/2"

Pitch of tubes 3 1/2" x 3 1/2" Material of tube plates Steel Thickness: Front 1 1/4" Back 3/4" Mean pitch of stays 10 1/4" Pitch across wide

water spaces 13" Working pressures by rules 192 4 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 1/4" x 20 3/4" Length as per rule 2' 6" Distance apart 7 1/2" Number and pitch of Stays in each 3 @ 7 1/4"

Working pressure by rules 212 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

## 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

LAKE ERIE BOILER WORKS.

The foregoing is a correct description,

L. N. Wheaton Manger, Manufacturer.

Dates

During progress of

work in shops - - July 9. 20. 28. Aug 3. 27. Sept 9. 29. Oct 8. 13. 18. 28. Nov 3.

of Survey

while

building

board vessel - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

" donkey "

" " "



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

These boilers have been built under special survey: the material & workmanship being good. They were tested by hydrostatic pressure to 285 lbs per sq. inch & found tight. These boilers are eligible in my opinion for a working pressure of 190 lbs per square inch.

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,
$\frac{1}{3}$ Special ...	\$74	: 00	:	30 Dec 1915
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any)	\$35	: 00	:	19

Committee's Minute FRI JUN 23 1916

Assigned

A. T. Thomas  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.