

REPORT ON BOILERS.

No. 131

REC'D NEW YORK Oct. 20 1918

Received at London Office WED. 20 NOV. 1918
CLEVELAND, OHIO.

of writing Report 191 When handed in at Local Office 191 Port of CLEVELAND, OHIO.

in Survey held at Buffalo NY Date, First Survey Jan 1917 Last Survey Nov 24 1917

Book. on the Challambra (Number of Visits) Gross Tons }
Net Tons }

er Built at By whom built When built

ines made at By whom made When made

ers made at Buffalo By whom made Lake Erie Boiler Works When made 1917

stered Horse Power Owners Seattle Dry Dock Co Port belonging to Seattle Wash

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

ter for record) Total Heating Surface of Boilers 538.5 Is forced draft fitted — No. and Description of

ers one Working Pressure 175 Tested by hydraulic pressure to 265 Date of test 24-11-17

of Certificate 101 Can each boiler be worked separately — Area of fire grate in each boiler — No. and Description of

ry valves to each boiler Area of each valve Pressure to which they are adjusted

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

lest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 7'0" Length 8'0"

erial of shell plates OH Steel Thickness 21/32" Range of tensile strength 60000 Are the shell plates welded or flanged No

rip. of riveting: cir. seams Lap single R long. seams B-D-S Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7"

of plates or width of butt straps 15" Per centages of strength of longitudinal joint rivets 143.5 Working pressure of shell by

180 Size of manhole in shell 2-11" X 15" Size of compensating ring 22 X 26 X 7/8" plate 84.82 No. and Description of Furnaces in each

1 Morrison Material OH Steel Outside diameter 42" Length of plain part 7 1/2" Thickness of plates crown 1/2"

ription of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 179 Combustion chamber

Material OH Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 19/32" Pitch of stays to ditto: Sides 7" X 7" Back 7" X 7"

7" X 7" If stays are fitted with nuts or riveted heads rusted heads Working pressure by rules 180 Material of stays IRON Diameter at

est part 1 3/4" Area supported by each stay 49" Working pressure by rules 180 End plates in steam space: Material OH Steel Thickness 39/64" X 1"

of stays 13 1/2" X 13 1/2" How are stays secured Double Nuts Working pressure by rules 181 Material of stays IRON Diameter at smallest part 2 3/8"

supported by each stay 18 2/4" Working pressure by rules 182 Material of Front plates at bottom OH Steel Thickness 39/64" Material of

r back plate OH Steel Thickness 39/64" Greatest pitch of stays 7" X 7" Working pressure of plate by rules 180 Diameter of tubes 3"

of tubes 4" X 4" Material of tube plates OH Steel Thickness: Front 39/64" Back 39/64" Mean pitch of stays 8" X 8" Pitch across wide

spaces 12" Working pressures by rules 210 Girders to Chamber tops: Material OH Steel Depth and thickness of

at centre 5 1/2" X (5 1/8" X 2) Length as per rule 20 1/4" Distance apart 7" Number and pitch of Stays in each 2-7"

ing pressure by rules 213 Superheater or Steam chest: how connected to boiler — Can the superheater be shut off and the boiler worked

ately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet

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

ened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —

ing pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

at By whom made When made Where fixed Working pressure

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

safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

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

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

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

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

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

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

ss of water tubes

The foregoing is a correct description,

By R. M. Wheaton Manufacturer.

During progress of work in shops July 2nd, 3, 4, 9, 12 Aug 2nd, 9, 15, 18, 21, 24, Sept 4, 7, 10, 15, 24, Oct 6, 10, 15, 22, 31, Nov 2nd, 9, 12, 24, Dec 1, 3, 8,

During erection on board vessel —

Total No. of visits —

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

Lloyd's Register Foundation
W592-0145

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

This Boiler has been constructed under special survey.

The materials and workmanship employed in the construction, was sound & good & found satisfactory under test.

This Boiler has been shipped to the Seattle Bay Dock Co., Seattle, Washington, to be installed in Hull No. 1

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 .. . \$ 35 : 00 :	:	:	When received,
<i>Buffalo</i> Travelling Expenses (if any) \$ 3 : 00 :	:	:19.....

Committee's Minute

New York NOV 6. 1918

Assigned

See Seattle Rpt no 735-

J. W. Owendell. W. W. Scott
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
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