

See Sfo 1st E. Rpt No. 3552.

REPORT ON BOILERS.

No. 621

WED. 6 JUL. 1921

Received at London Office

Report made in accordance with the Rules of the Society for the Survey of Boilers on the hull No. 15

Report made on Feb. 28 1921 When handed in at Local Office

Port of Portland, Oregon.

Survey held at Portland, Oregon Date, First Survey Jan. 3, 1921 Last Survey Feb. 12, 1921

(Number of Visits 9) Gross Tons Net

Built at Portland, Oregon By whom built Willamette Iron & Steel Works When built

By whom made Willamette Iron & Steel Works When made

Owners

Port belonging to

TUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel **Midvale Steel Co.**

Total Heating Surface of Boilers **1272** Is forced draft fitted No. and Description of Feb. 12, 1921.

Single Ended Scotch Working Pressure **120** Tested by hydraulic pressure to **230** Date of test **1921.**

Certificate **220** Can each boiler be worked separately Area of fire grate in each boiler No. and Description of

Area of each valve Pressure to which they are adjusted

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

Mean dia. of boilers **11'-3"** Length **10'-7 3/4"**

Are the shell plates welded or flanged **Hds. Flanged**

Thickness **11/16"** Range of tensile strength **71680** Diameter of rivet holes in long. seams **1 3/16"** Pitch of rivets **7 1/2" & 3 3/4"**

long. seams **D.R.** **Triple Riveted** **Double Butt Strap** rivets **159.7%** Working pressure of shell by

Per centages of strength of longitudinal joint **84.17%**

Size of manhole in shell **12x16** Size of compensating ring **28 3/8" x 32 8/8"** No. and Description of Furnaces in each

Material **Steel** Outside diameter **39 7/8"** Length of plain part Thickness of plates **7/16"**

Working pressure of furnace by the rules **157.8** Combustion chamber

Material **Steel** Thickness: Sides **1/2"** Back **5/8"** Top **1/2"** Bottom **13/16"** Pitch of stays to ditto: Sides **6 1/2" x 8"** Back **8 1/2" x 9"**

Working pressure by rules **120.4** Material of stays **Steel** Area at

Area supported by each stay **76.5** Working pressure by rules **143** End plates in steam space: Material **Steel** Thickness **3/4"**

How are stays secured **Double Nuts** Working pressure by rules **121.8** Material of stays **Steel** Area at smallest part **4.095**

Working pressure by rules **217** Material of Front plates at bottom **Steel** Thickness **3/4"** Material of

Greatest pitch of stays **12 1/4"** Working pressure of plate by rules **124.6** Diameter of tubes **2 3/4"**

Material of tube plates **Steel** Thickness: Front **3/4"** Back **9/16"** Mean pitch of stays **9 1/2" x 9 1/2"** Pitch across wide

Working pressures by rules **121.6** Girders to Chamber tops: Material **Steel** Depth and thickness of

Length as per rule **30"** Distance apart **7 1/2"** Number and pitch of Stays in each **3-8"**

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

Tested by Hydraulic Pressure to

CAL DONKEY BOILER — No. Description Manufacturers of steel

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

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

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

Whether punched or drilled Pitch of rivets

Working pressure of shell by rules Thickness of shell crown plates

Diameter of furnace Top Bottom Length of furnace

Working pressure of furnace by rules Thickness of furnace crown

Thickness of uptake plates

Radius of do. Stayed by Diameter of uptake

The foregoing is a correct description,
WILLAMETTE IRON & STEEL WKS. Manufacturer.
 PORTLAND, OREGON.
C. O. Pope

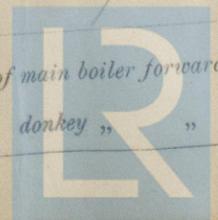
During progress of work in shops -- Jan. 28, 31. Feb. 3, 4, 5, 7, 9, 11, 12.

During erection on board vessel --

Total No. of visits **9**

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " No



© 2020
 Lloyd's Register Foundation

MS43-1014

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

The Donkey Boiler has been constructed under Special Survey in accordance with the Rules at Portland, Oregon and to the approved plan. The material, tested by the Society's Surveyors, is sound and good and the workmanship good. The Boiler has been forwarded to San Francisco to be fitted on board the Union Construction Co.'s hull No. 15.

Rpt. 13.

REPORT

Port of **SAN**

No. in Reg. Book on the Built a

Owners **Anglo Sa**

Yard No. **15**

DESCRIPTION OF

One 12½ K.W.

One 7 K.W.

Capacity of Dynamo

Where is Dynamo f

Position of Main Su

Positions of auxili

one in engin

If fuses are fitted

circuits **Yes**

If vessel is wired o

Are the fuses of n

Are all fuses fitted

are permanent

Are all switches an

Total number of li

53

A **79**

B **26**

C **66**

D **20**

E **5**

2 Mast hee

2 Sid

4

If arc lights, wha

Where are the s

DESCRIPTION OF

Main cable carryi

Branch cables ca

Branch cables ca

Leads to lamps ca

Cargo light cables

DESCRIPTION

The co

ness-- she

and in coa

Joints in cables,

ed by rubb

Are all the joint

positions, n

Are there any j

How are the ca

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	See S. 70. Mach.	19.....
Donkey Boiler Fee £	Rpt. No. 3552	When received.
Travelling Expenses (if any) £	:	19.....

J. H. Yates

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York JUN 21 1921

FRI. AUG. 26 1921

Assigned

See S. 70. 3552

FRI. SEP. 8 1922



© 2020

Lloyd's Register
Foundation