

# REPORT ON BOILERS

No. 14

REC'D NEW YORK

Nov. 27 1916

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Date of writing Report **NOV. 22 1916** When handed in at Local Office **NOV. 22 1916** Port of **PORT ARTHUR, ONTARIO**

No. in Survey held at **PORT ARTHUR ONTARIO.** Date, First Survey **APRIL 17, 1916** Last Survey **NOV. 22nd 1916**

Reg. Book. on the **SINGLE SCREW STEEL STEAMER "BLAAMYRA"** (Number of Visits **108**) Tons { Gross **2436.73** Net **1484.05**

Master **C.E. STEPHENS** Built at **PORT ARTHUR** By whom built **WESTERN DRY DOCK & SHIPBUILDING COMPANY LIMITED** When built **11/16**

Engines made at **PORT ARTHUR** By whom made **W.D.D. & S.B. CO. LIMITED** When made **11/16**

Boilers made at **PORT ARTHUR** By whom made **W.D.D. & S.B. CO. LIMITED** When made **11/16**

Registered Horse Power **146.83** Owners **GREAT LAKES TRANSPORTATION COMPANY** Port belonging to **KRISTIANIA**

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel **CARNEGIE STEEL COMPANY**

Letter for record **5** (15/11/16) Total Heating Surface of Boilers **5246** Is forced draft fitted **NO** No. and Description of

boilers **2 RE. TUB. SCOTCH SINGLE ENDED** Working Pressure **190 LBS** Tested by hydraulic pressure to **380 LBS** Date of test **14/11/16**

No. of Certificate **5** Can each boiler be worked separately **YES** Area of fire grate in each boiler **63** No. and Description of

safety valves to each boiler **2 SPRING LOADED** Area of each valve **9.62** Pressure to which they are adjusted **190 POUNDS**

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 boilers or uptakes and bunkers or woodwork Mean dia. of boilers **14.5** Length **11'-0"**

Material of shell plates **STEEL** Thickness **1.438** Range of tensile strength **62720** Are the shell plates welded or flanged **FLANGED**

Descrip. of riveting: cir. seams **SINGLE** long. seams **STRAPPED TREBLE** Diameter of rivet holes in long. seams **1.4375** Pitch of rivets **4.5**

Lap of plates or width of butt straps **21"** Per centages of strength of longitudinal joint rivets **95.4** Working pressure of shell by plate **84**

Rules **218 POUNDS** Size of manhole in shell **11"x 15"** Size of compensating ring **33"x 1.425** No. and Description of Furnaces in each

boiler **3 MORRISON** Material **STEEL** Outside diameter **46.6875** Length of plain part top **8.812** Thickness of plates crown **.593** bottom **.593**

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules **205#** Combustion chamber

plates: Material **STEEL** Thickness: Sides **.678** Back **.678** Top **.59** Bottom **.64** Pitch of stays to ditto: Sides **6.875** Back **6.875**

Top **7x7.5** If stays are fitted with nuts or riveted heads **NUTS** Working pressure by rules **192#** Material of stays **STEEL** Diameter at

smallest part **1.375** Area supported by each stay **47** Working pressure by rules **192** End plates in steam space: Material **STEEL** Thickness **1.126**

Pitch of stays **15x14.5** How are stays secured **NUTS** Working pressure by rules **212** Material of stays **STEEL** Diameter at smallest part **2.375**

Area supported by each stay **217.5** Working pressure by rules **212#** Material of Front plates at bottom **STEEL** Thickness **.821** Material of

Lower back plate **STEEL** Thickness **.691** Greatest pitch of stays **6.875** Working pressure of plate by rules **209#** Diameter of tubes **3.25**

Pitch of tubes **4.25** Material of tube plates **STEEL** Thickness: Front **.821** Back **.8** Mean pitch of stays **11"** Pitch across wide

water spaces **13.75** Working pressures by rules **194.4 POUNDS** Girders to Chamber tops: Material **STEEL** Depth and thickness of

girder at centre **8.625x.796** Length as per rule **34"** Distance apart **7.5** Number and pitch of Stays in each **3 - 7"**

Working pressure by rules **220#** 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 Plates 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.

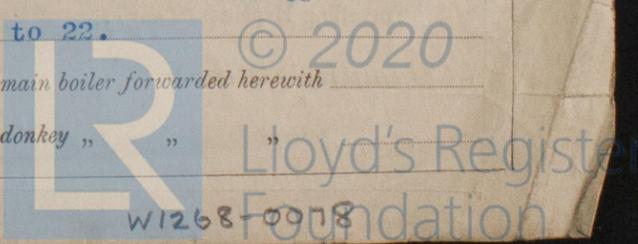
Dates of Survey while building { During progress of work in shops **APRIL 17-20-26-28-29 MAY 2-6-9-12-17-23-29, JUNE 1-3-5-6-7-9-12-14-16-19-20-21-22-26-28-30, JULY 25 days, Aug. 1-9, 14-17-23 to 27, Sept. 2 to 6, 20 to 24.**

{ During erection on board vessel - - - **OCTOBER 2 to 4, 11 to 13, 23 to 26. NOV. 2 to 15, 17 to 22.**

Total No. of visits **108**

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



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

Port of

No. in Reg. Book

Owns GREAT  
Yard No. 15

DESCRIPTION  
1-ENBERG 7

Capacity of D

Where is Dyn

Position of M

Positions of a

CIRCUIT B  
CUIT BOARD

If fuses are  
circuits

If vessel is wi

Are the fuses

Are all fuses

are perman

Are all switch

Total number

A 2

B 3

C

D

E

2 Mus

2

4 PORTAB

If arc lights,

Where are the

DESCRIPTION

Main cable car

Branch cables

Branch cables

Leads to lamps

Cargo light cab

DESCRIPTION

WIRES

DUITS.

Joints in cables

AND FRICT

Are all the join

positions,

Are there any

How are the c

Certificate (if required) to be sent to

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

*Robert Cunn*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUE. 20 FEB. 1917

Assigned TUE. 12 NOV. 1918

FRI. 28 DEC. 1917 TUE. 22 OCT. 1918  
 TUE. 8 JAN. 1918  
 TUE. 28 MAY. 1918 FRI. 7 FEB. 1919  
 TUE. AUG. 13. 1918  
 TUE. SEP. 24. 1918

