

# REPORT ON BOILERS.

No. 69.A.

Received at London Office

Date of writing Report March 29 1917 When handed in at Local Office Jan 2-9 1917 Port of Cleveland, Ohio  
 No. in Survey held at Lorain Ohio Date, First Survey March 31 1917 Last Survey 5 Aug 1916  
 Reg. Book. 93 on the Twin Main Boilers for N.S. Cleveland (Number of Visits) 525 Gross Tons 2045  
 Master Karl M. Muested Built at Superior By whom built Superior Shipbuilding Co. When built 1916  
 Engines made at Detroit By whom made Detroit Shipbuilding Co. when made 1916  
 Boilers made at Lorain Ohio By whom made American S. S. Co. (1869) when made 5 Aug 1916  
 Registered Horse Power \_\_\_\_\_ Owners James E. Davidson Port belonging to Haugeland

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

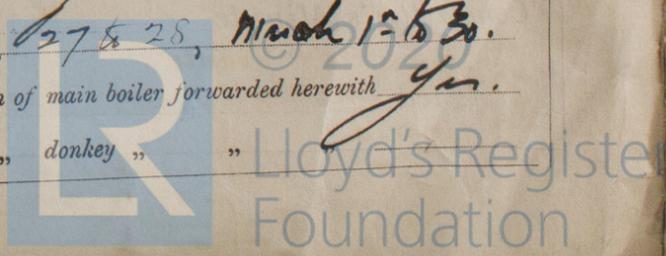
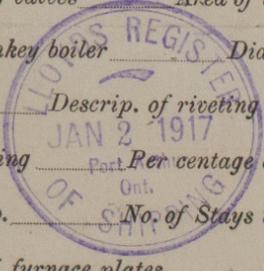
(Letter for record S.) Total Heating Surface of Boilers 5060 Is forced draft fitted \_\_\_\_\_ No. and Description of Boilers Twin, built C.S. S.E. Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 7-2-14  
 No. of Certificate 63 Can each boiler be worked separately YES Area of fire grate in each boiler 64 No. and Description of safety valves to each boiler 2-3 Area of each valve 70 Pressure to which they are adjusted 180 lbs  
 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 none Int. Mean dia. of boilers 14'-6" Length 11'-2 1/2"  
 Material of shell plates S. Thickness 1 1/4" Range of tensile strength 28/32 T. Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams L.S.R. long. seams D.S.T.R. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/2"  
 Lap of plates or width of butt straps 19 1/4" Per centages of strength of longitudinal joint rivets 94.7 Working pressure of shell by rules 192 1/2 Size of manhole in shell 15" x 11" Size of compensating ring 33 x 33 x 1 1/2" No. and Description of Furnaces in each boiler 3 Material S. Outside diameter 48" Length of plain part top 9 1/2" Thickness of plates bottom 9 1/2"  
 Description of longitudinal joint Weld. No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules 183 1/2 Combustion chamber plates: Material S. Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 7 7/8" Back 7 7/8"  
 Top 8 x 7 1/2" If stays are fitted with nuts or riveted heads yes Working pressure by rules 180 Material of stays S. Diameter at smallest part 1.26 Area supported by each stay 55.2 Working pressure by rules 182 1/2 End plates in steam space: Material S. Thickness 1 1/2"  
 Pitch of stays 17-15 1/4" How are stays secured Q. nuts Working pressure by rules 99 Material of stays S. Diameter at smallest part 4.40  
 Area supported by each stay 267.7 Working pressure by rules 210 Material of Front plates at bottom S. Thickness 1 1/2" Material of Lower back plate S. Thickness 5/8" Greatest pitch of stays 13 x 6 1/4" Working pressure of plate by rules 250 Diameter of tubes 3 1/4"  
 Pitch of tubes 4 1/4" Material of tube plates S. Thickness: Front 1/4" Back 1/4" Mean pitch of stays 12 1/2" x 8 1/2" Pitch across wide water spaces 13 1/4" Working pressures by rules 183 1/2 Girders to Chamber tops: Material S. Depth and thickness of girder at centre 8 7/8" x 1 1/2" Length as per rule 30" Distance apart 8" Number and pitch of Stays in each 20 7 1/2"  
 Working pressure by rules 220 Superheater or Steam chest; how connected to boiler main 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 \_\_\_\_\_ 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,  
The American Shipbuilding Co. Manufacturer.

Dates During progress of work in shops - - - 1916. June 3. 12. 22. 27. July 8. 15. 23. 27. Aug 5.  
 Survey while building During erection on board vessel - - - 1917 Jan 5 to 13, 25 to 31, Feby 1 to 17, 27 & 28, March 1 to 30.  
 Total No. of visits 69 Is the approved plan of main boiler forwarded herewith yes  
 " " " donkey " " \_\_\_\_\_



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

These Boilers have been constructed under Special Survey. The materials and workmanship employed in their construction are sound and good. On completion they have been examined under water tests, as stated, with satisfactory results.

W. Law

In my opinion the Boilers will be eligible to receive the notation **LMC Superior**, vis 12/16.

Robert Law

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	57.00	:	July 6 1917
Donkey Boiler Fee ...	£	...	:	When received,
Travelling Expenses (if any)	£	4.50	:	March 1917

W. Law  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute: FEB 4 MAY 1917  
Assigned: See A. Exp attached

pt. 13.

REPORT

Port of PORT A  
No. in on the In  
Reg. Book. Built at  
93  
owners. J. E.  
Card No. 525

DESCRIPTION OF  
"BERG" 7 1/  
speed 525 R.P.

Capacity of Dynamo  
Where is Dynamo f  
Position of Main S  
Positions of auxili  
switches; 4

If fuses are fitted  
circuits Y  
If vessel is wired  
Are the fuses of  
Are all fuses fitt  
are permane

Are all switches  
Total number of  
A 34  
B 34  
C 6  
D 20  
E 28

3 Mast  
2 anc  
4 portab

If arc lights, w  
Where are the

DESCRIPTION  
Main cable car  
Branch cables  
Branch cables  
Leads to lamps  
Cargo light cab

DESCRIPTION  
Rubbe  
all cable  
Joints in cab

Are all the jo  
position  
Are there an  
How are the



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