

REPORT ON BOILERS.

No. 69.A.

Received at London Office
 Date of writing Report March 29 1917 When handed in at Local Office Jan 2nd 1917 Port of Cleveland, Ohio
 No. in Survey held at Lorain Ohio Date, First Survey March 31st 1917 Last Survey 5. Aug 1916
 Reg. Book. 93 on the Ten Main Boilers for H.S. Cleveland (Number of Visits 5) Gross Tons 2045 Net Tons 1258
 Master Karl M. Thuestad 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. B. Co. (1869) when made 5. Aug 1916
 Registered Horse Power _____ Owners James E. Davidson Port belonging to Hagerland

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 Ten, built C.S.B. S.E. Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 8. 11. 16
 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.B.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 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 1/4" Thickness of plates crown 9 1/4" bottom 9 1/4"
 Description of longitudinal joint Welded No. of strengthening rings _____ Working pressure of furnace by the rules 183 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 End plates in steam space: Material S. Thickness 1 1/4"
 Pitch of stays 17.15 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 1/4" Material of Lower back plate S. Thickness 1 1/4" 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 1/4" Back 1 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 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 _____ 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 _____

The foregoing is a correct description,
The American Ship Building Co. Manufacturer.

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

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 test, as stated, with satisfactory results.

W. Lane

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

Robert Lane

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 ...	£	57.00	:	Feb 6 1917
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any)	£	4.50	:	March 1917

Committee's Minute: FEB - 4 MAY 1917

Assigned

See A. Expt attached

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



© 2020

Lloyd's Register
Foundation

pt. 13.

REPORT

Port of PORT A

No. in on the In
eg. Book Built at
93 J. E.

Card No. 525

DESCRIPTION OF

ENBERG" 7 1/2

speed 525 R.P.

Capacity of Dynamo

Where is Dynamo

Position of Main S

Positions of auxilia

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 th