

REPORT ON BOILERS

No. 57

Received at London Office

JAN. 25, 1916

Date of writing Report 10th Jan 1916 When handed in at Local Office 10th Jan 1916 Port of Cleveland Ohio
 No. in Survey held at Ahtabula Date, First Survey 18th Nov Last Survey 10th Dec 1916
 Reg. Book. on the S. J. "Harris Adlet" and "Tip Top" (Number of Visits 4) Tons { Gross / Net }
 Master Ahtabula Built at Ahtabula By whom built Great Lakes Eng. Works When built 1915
 Engines made at Detroit By whom made Great Lakes Eng. Works when made 1915
 Boilers made at Chicago By whom made Link Belt Company when made 1915
 Registered Horse Power _____ Owners Silas Peterson Port belonging to Skull

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

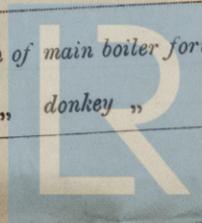
(Letter for record _____) Total Heating Surface of Boilers _____ Is forced draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____
 No. of Certificate _____ Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of safety valves to each boiler _____
 Area of each valve _____ Pressure to which they are adjusted _____
 Are they fitted with easing gear _____ 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 _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____
 Descrip. of riveting: cir. seams _____ long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____
 Lap of plates or width of butt straps _____ Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____
 Size of manhole in shell _____ Size of compensating ring _____ No. and Description of Furnaces in each boiler _____
 Material _____ Outside diameter _____ Length of plain part _____ Thickness of plates _____
 Description of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____ Pitch of stays to ditto: Sides _____ Back _____
 Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____ Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: Material _____ Thickness _____
 Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____ Diameter at smallest part _____
 Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____ Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____ Diameter of tubes _____
 Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____ Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of Stays in each _____
 Working pressure by rules _____ 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. one Description Vertical Tubular Manufacturers of steel Ohio Steel Co
 Made at Chicago By whom made Link Belt Co When made 1915 Where fixed on Deck Crane Working pressure 175 lb
 tested by hydraulic pressure to 188 Date of test 18-11-15 No. of Certificate _____ Fire grate area 12.5 Description of safety valves Spring. Pop
 No. of safety valves 1 Area of each 3.141 Pressure to which they are adjusted 125 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 54" Length 8'-3 1/2" Material of shell plates Steel Thickness 27/16" Range of tensile strength 55000 Descrip. of riveting long. seams D. R. B. S. Dia. of rivet holes 13/16" Whether punched or drilled punched Pitch of rivets 4 8/16"
 Lap of plating 1 1/8" Per centage of strength of joint 82.2 Working pressure of shell by rules 134 lb Thickness of shell crown plates 7/16"
 Radius of do. ✓ No. of Stays to do. beaded Dia. of stays none Diameter of furnace Top 48" Bottom ✓ Length of furnace 2.6 1/16"
 Thickness of furnace plates 3/8" Description of joint S. R. lap Working pressure of furnace by rules 125 lb Thickness of furnace crown plates 7/16" Radius of do. ✓ Stayed by beaded Diameter of uptake none Thickness of uptake plates ✓
 Thickness of water tubes ✓

The foregoing is a correct description,
Link-Belt Company manufacturer.
W. H. Keyman - C.E.

Dates of Survey while building { During progress of work in shops - - - } Nov. 1915
 { During erection on board vessel - - - } Nov 18. 22. - New York. Dec 8. 10.
 Total No. of visits 4

Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " yes



Lloyd's Register Foundation

00664-006653-0120

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

This boiler was examined when fitted aboard, and the material & workmanship found good.

It was tested by hydraulic pressure to 188 lbs per sq. in. & found tight. This boiler is eligible in my opinion for a working pressure of 125 lbs per sq. in. when the safety valves have been adjusted under pressure to this pressure.

The Donkey boiler safety valve adjusted to blow at 125 lbs per sq. in.

Certificate (if required) to be sent to

VERTICAL DONKEY BOILER
 Made at Chicago by the Chicago Boiler Co
 Tested by hydraulic pressure to 188 lbs per sq. in. at 18.11.15
 3.1.16
 152
 134 lbs
 132 lbs
 131 lbs
 130 lbs
 129 lbs
 128 lbs
 127 lbs
 126 lbs
 125 lbs
 124 lbs
 123 lbs
 122 lbs
 121 lbs
 120 lbs
 119 lbs
 118 lbs
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 16 lbs
 15 lbs
 14 lbs
 13 lbs
 12 lbs
 11 lbs
 10 lbs
 9 lbs
 8 lbs
 7 lbs
 6 lbs
 5 lbs
 4 lbs
 3 lbs
 2 lbs
 1 lb

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

A. T. Thomas
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 28. JAN. 1916 TUE. 14. MAR. 1916
 Assigned

