

## 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. S. "Harris Adlet" now "Tip Top" (Number of Visits 4) Tons { Gross  
 Master 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 Elmer Peterson Port belonging to Skien

## 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 rivets Working pressure of shell by  
 rules Size of manhole in shell Size of compensating ring plate  
 boiler Material Outside diameter Length of plain part top Thickness of plates crown  
 bottom Thickness of plates bottom  
 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 125 lbs  
 tested by hydraulic pressure to 188 Date of test 18.11.15 No. of Certificate 125 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 55,000 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'  
 Lap of plating 1 1/2" Per centage of strength of joint 82.2 Working pressure of shell by rules 134 lbs 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 48" 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 lbs 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.  
Ed. Keyman - C.E.

Dates of Survey while building { During progress of work in shops -- } Oct. 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



**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

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

Committee's Minute FRI. 28 JAN. 1916

TUE. 14 MAR. 1916

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