

REPORT ON BOILERS.

No. 37381
-5 MAR 1937

Received at London Office

Date of writing Report July 18 1937 When handed in at Local Office July 20 1937 Port of NEW YORK
 No. in Survey held at NEW YORK Date, First Survey Feb 3 Last Survey Feb 4 1937
 Reg. Book. on the TANK BARGE TEXACO. 171 (Number of Visits 2) Tons { Gross 658
 Net 634
 Master John Mc Built at Port Mc By whom built Lucas S. S. Leo When built 1921
 Engines made at NONE By whom made Lake Erie Boiler Works When made 1921
 Boilers made at Buffalo N.Y. By whom made The Lucas Leo Port belonging to Hilmington Del.
 Registered Horse Power 171 Owners The Lucas Leo

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

(Letter for record 5) Total Heating Surface of Boilers 946 sq ft Is forced draft fitted No No. and Description of Boilers one scotch Working Pressure 150 lbs Tested by hydraulic pressure to 225 lbs Date of test 3-7-37

No. of Certificate ✓ Can each boiler be worked separately ✓ Area of fire grate in each boiler 617 sq ft No. and Description of safety valves to each boiler one spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 125

Are they fitted with easing gear Yrs In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler single train

Smallest distance between boilers or uptakes and bunkers or woodwork 60 in Mean dia. of boilers 10'-0" Length 10'-0"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 70,000 lbs Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR Lap long. seams TR. DBS Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 9 1/8"

Lap of plates or width of butt straps 11 1/2" inside Per centages of strength of longitudinal joint 97 Working pressure of shell by rules 156.15 Size of manhole in shell 12" x 16" Size of compensating ring 31 1/2" x 7 1/8"

No. and Description of Furnaces in each boiler 2 Marlow Material Steel Outside diameter 3'-2 1/4" Length of plain part 9' Thickness of plates 13/32"

Description of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 149 1/2 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 7 1/2" x 8" Back 7 1/2" x 8"

Top 7 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 135 1/2 Material of stays Steel Area at smallest part 1.26 Area supported by each stay 60 sq in Working pressure by rules 168 End plates in steam space: Material Steel Thickness 3/4"

Pitch of stays 14 x 14 How are stays secured DOUBLE NUTS Working pressure by rules 155 Material of stays Steel Area at smallest part 3.55 sq in

Area supported by each stay 196 sq in Working pressure by rules 120 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 12" x 7 1/2" Working pressure of plate by rules 144 1/2 Diameter of tubes 3"

Pitch of tubes 4 1/8" x 4" Material of tube plates Steel Thickness: Front 3/4" Back 9/16" Mean pitch of stays 9.12" Pitch across wide water spaces 12" Working pressures by rules 120 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2" x 1 1/8" Length as per rule 26 1/8" Distance apart 7 1/2" Number and pitch of Stays in each 3-7 1/2"

Working pressure by rules 120 lbs Steam dome: description of joint to shell None % of strength of joint ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type None Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓

Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

VERTICAL DONKEY BOILER—No. None Description None Manufacturers of steel None

Made at None By whom made None When made None Where fixed None Working pressure None

tested by hydraulic pressure to None Date of test None No. of Certificate None Fire grate area None Description of safety valves None

No. of safety valves None Area of each None Pressure to which they are adjusted None If fitted with easing gear None If steam from main boilers can enter the donkey boiler None

Dia. of donkey boiler None Length None Material of shell plates None Thickness None Range of tensile strength None

Descrip. of riveting long. seams None Dia. of rivet holes None Whether punched or drilled None Pitch of rivets None

Lap of plating None Per centage of strength of joint None Rivets None Working pressure of shell by rules None Thickness of shell crown plates None

Radius of do. None No. of Stays to do. None Dia. of stays None Diameter of furnace Top None Bottom None Length of furnace None

Thickness of furnace plates None Description of joint None Working pressure of furnace by rules None Thickness of furnace crown plates None

plates None Radius of do. None Stayed by None Diameter of uptake None Thickness of uptake plates None

Thickness of water tubes None The foregoing is a correct description, Manufacturer. None

Dates of Survey while building { During progress of work in shops -- }
 { During erection on board vessel -- }
 Total No. of visits ✓

Is the approved plan of main boiler forwarded herewith ✓" " " donkey " " ✓

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

Isaco. 171.

Donkey Boiler

This boiler was not built under special survey, but it has been examined and found in good condition. In some respects the scantlings do not quite comply with the rules, but the deficiencies are not serious and the boiler complies with the U.S. Government regulations at the time it was built and in my opinion it is in good and safe working condition.

The steel was originally tested by U.S. Government Steamboat inspectors. The boiler has been annually tested by them to 225 lbs. hydraulic pressure the last occasion being February 3rd 1937.

Only one safety valve is fitted, but this complies with U.S. Government regulations at the time this boiler was built.

Donkey boiler examined internally and externally with all mountings and found in good condition. Steam pipes where exposed found good. Safety valves adjusted under steam at 150 lbs. force per sq. in.

Witnessed hydraulic test of 225 lbs. force per sq. in. by the U.S. local inspection service and found tight.

Certificate (if required) to be sent to

The amount of Entry Fee	.. £	<i>See Hull Report</i>	When applied for,
Special £	:	19...
Donkey Boiler Fee £	:	When received,
Travelling Expenses (if any)	£	:	19...

Committee's Minute

Assigned *D.B. 20-150 lb*
D.B. 237

NEW YORK FEB 24 1937

Geo. Kelly

Engineer Surveyor to Lloyd's Register of Shipping



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