

REPORT ON BOILERS.

No. 49002

Received at London Office

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Date of writing Report 19 When handed in at Local Office 19 Port of NEW YORK, N.Y.

No. in Survey held at BROOKLYN, N.Y. Date, First Survey 20th SEPT 48 Last Survey 27th JAN 1949

Reg. Book. on the T.S. M.V. "LIDIA" EX LST 198. (Number of Visits 3) Gross Tons Ver.

Built at SENECA, ILL. By whom built CHICAGO BRIDGE & IRON WORKS Yard No. When built 1943-1

Engines made at LA GRANGE ILL. By whom made GENERAL MOTORS CORP. P. N. 108 Engine No. 547 When made 1942-10

Boilers made at MILWAUKEE, WISC. By whom made CLEAVER-BROOKS CO. Boiler No. MB6545 When made 1943-7

Owners SHELL CARIBBEAN PETROLEUM CO Port belonging to MARACAIBO

HORIZONTAL DONKEY
VERTICAL BOILER.

Made at MILWAUKEE, WISC. By whom made CLEAVER-BROOKS CO. Boiler No. 0-619 When made 1943 Where fixed AUXILIARY ENGINE ROOM

Manufacturers of Steel.

Total Heating Surface of Boiler 300 SQ. FT.

Is forced draught fitted YES

Coal or Oil fired OIL

No. and Description of Boilers ONE: CYLINDRICAL BOILER WITH ONE PLAIN FURNACE TUBE

Working Pressure 35 LBS

Tested by hydraulic pressure to 100 LBS + 150 LBS Date of test 7-17-43 + 17-12-48

No. of Certificate U.S. NAVY

Area of fire grate in each Boiler

No. and description of safety valves to each boiler TWO: SIMPLEX 2" DIA. CONSOLIDATED (1451)

Area of each set of valves per boiler

per Rule

as fitted 6.28 0

Pressure to which they are adjusted 0 LBS

Are they fitted with easing gear YES

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

or woodwork 10 FT

Is oil fuel carried in the double bottom under boiler NO

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated YES

Largest internal dia. of boiler 48"

LENGTH 8'-0"

Shell plates: Material O.H. STEEL

Tensile strength

Thickness 5/16"

Are the shell plates welded or flanged

If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with ASME RULES

Description of riveting: circ. seams { end SINGLE

long. seams DOUBLE

Dia. of rivet holes in

circ. seams 13/16"

long. seams 13/16"

Pitch of rivets

4 1/2"

Percentage of strength of circ. seams { plate

of longitudinal joint

plate

rivets

combined

Thickness of butt straps

outer 9/32"

inner 9/32"

Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat

Material

Tensile strength

Thickness

Radius

Description of Furnace: Plain, spherical, or dished crown PLAIN

Material SEAMLESS STEEL

Tensile strength

Thickness 5/16"

External diameter

top 14"

bottom

Length as per Rule 6'-0 5/8"

Pitch of support stays circumferentially NONE

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

Thickness of Ogee Ring

Diameter as per Rule

D

d

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Thickness of back plate

Diameter if circular

Length as per Rule

Pitch of stays

Arc stays fitted with nuts or riveted over

Diameter of stays over thread

Tube Plates: Material

front OHS

back OHS

Tensile strength

Thickness

7/16"

7/16"

Mean pitch of stay tubes in nests

If comprising shell, dia. as per Rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay 2 1/32"

plain 2 1/32"

BACK

stay 2 1/32"

plain 2 1/32"

Is each alternate tube in outer vertical rows a stay tube NO

Girders to Combustion Chamber Tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per Rule

Distance apart

No. and pitch of stays in each

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Crown Stays: Material ☒ Tensile strength ☒ Diameter { at body of stay, ☒ or over threads. ☒
 No. of threads per inch ☒ **Screw Stays:** Material ☒ Tensile strength ☒
 Diameter { at turned off part, ☒ or over threads. ☒ No. of threads per inch ☒ Are the stays drilled at the outer ends. ☒
Tubes: Material SEAMLESS STEEL External diameter { plain 2" stay ☒ Thickness { 13 GA
 No. of threads per inch ☒ Pitch of tubes HORIZONTAL 4 1/2" TO 2 3/4" VERTICALLY 5 1/2" TO 2 7/8"
HAND
Manhole Compensation: Size of opening in shell plate 3 1/4" x 4 1/2" Section of compensating ring NONE No. of rivets and diameter
 of rivet holes. ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged ☒
Uptake: External diameter 12" DIA Thickness of uptake plate 3/16"
Cross Tubes: No. ☒ External diameters { ☒ Thickness of plates ☒

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. ☒

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - ☒ Is the approved plan of boiler forwarded herewith (If not state date of approval.) ☒
 { During erection on board vessel - - - ☒ Total No. of visits ☒

Is this Boiler a duplicate of a previous case. YES If so, state Vessel's name and Report No. M.V. LUISA RPT N° 48958

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

The Donkey Boiler described herein is for gaspiping purposes only & is the heating boiler originally fitted in this vessel. The boiler has now been relocated in the Auxiliary Engine room directly above the main engine room.

The boiler has been built to conform with the ASME Code for not less than 100 PSI. with a test pressure of 150 PSI. & to the U.S. Navy approval drawing 22 Feb 1940. has now been installed on board complete with the original automatic firing & feed water controls to maintain a working pressure of 35 PSI. the safety valves have been adjusted under pressure to 50 PSI.

The materials & workmanship are considered satisfactory. We are of the opinion that this boiler is eligible to be classed with this Society & it is recommended that the record of DBS 1-49 be favourably considered by the Committee.

Survey Fee ... £ ☒ : When applied for 19
 Travelling Expenses (if any) £ ☒ : When received 19

Engineer Surveyor to Lloyd's Register of Shipping.

Date

NEW YORK MAR 16 1949

Committee's Minute

1 D.B. (rolls)



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