

REPORT ON BOILERS.

No. 49001

Received at London Office 2- APR 1949

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 14TH SEPT 48 Last Survey 16TH FEB 1949

Reg. Book. on the T.S. M.V. 'LEONA' EX LST 180 (Number of Visits 2) Tons Gross... Net...

Built at EVANSTON, ILL. By whom built MISSOURI VALLEY BRIDGE & IRON WORKS Yard No. When built 1943-
ELECTRO MOTIVE CORP DIVISION OF

Engines made at LA GRANGE, ILL. By whom made GENERAL MOTORS CORP. Engine No. P.N. 587 When made 1943-3

Boilers made at MILWAUKEE, WISC. By whom made CLEAVER-BROOKS CO. Boiler No. NB2784 When made 1942-

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. 1810 When made 1942 Where fixed 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. Date of test 21 DEC 48 No. of Certificate US 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 sq Pressure to which they are adjusted 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 28 TONS 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 inter

long. seams DOUBLE Dia. of rivet holes in { circ. seams 13/16" Pitch of rivets { 4 1/2" Percentage of strength of circ. seams { plate rivets

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

Are stays fitted with nuts or riveted over Diameter of stays over thread

Tube Plates: Material { front OHS back OHS Tensile strength Thickness { 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 plain BACK { stay plain

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

Crown Stays: Material ☒ Tensile strength ☒ Diameter { at body of stay ☒
No. of threads per inch ☒ Screw Stays: Material ☒ Tensile strength ☒
Diameter { at turned off part ☒ No. of threads per inch ☒ Are the stays drilled at the outer ends ☒
or over threads ☒

Tubes: Material SEAMLESS STEEL External diameter { plain 2" 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 { During progress of work in shops ☒
while building { During erection on board vessel ☒
Is the approved plan of boiler forwarded herewith (If not state date of approval.)
Total No. of visits ☒

Boiler a duplicate of a previous case ☒ YES If so, state Vessel's name and Report No. MV 'LUISA' RPT NO.

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

The Donkey Boiler described herein is for gasfiring 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 A.S.M.E. Code for not less than 100 P.S.I. with a test pressure of 150 lbs per sq. in. and 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 P.S.I. the safety valves have been adjusted under pressure to 50 P.S.I.

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 12-48 be favourably considered by the Committee

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

Bloomfield for H. S. Keller + self
Engineer Surveyor to Lloyd's Register of Shipping.

Date NEW YORK MAR 16 1949
Committee's Minute 1 D. B. (Keller)