

REPORT ON WATER TUBE BOILERS.

No. 37268

Received at London Office

Date of writing Report 11 Jan 1937 When handed in at Local Office 11 Jan 1937 Port of NEW YORK

No. in Survey held at CARTARET N.J. Date, First Survey 8 Dec 1936 Last Survey 4 Jan 1937

Reg. Bk. on the M.V. (SUN S. B. Co. HULL #159) (Number of Visits 3) Tons 3 Gross 3 Net 3

Master ✓ Built at CHESTER PA. By whom built SUN S. B. Co. When built 1937

Engines made at CHESTER PA. By whom made SUN S. B. Co. When made 1937

Boilers made at CARTARET N.J. By whom made FOSTER WHEELER CORP. When made 1937

Registered Horse Power 1145 Owners SUN OIL Co. Port belonging to ---

WATER TUBE BOILERS

~~MANUFACTURED BY~~ DONKEY. — Manufacturers of Steel

LUKENS STEEL Co.

(Letter for Record S) Date of Approval of plan 4 Nov 1936 Number and Description or Type of Boilers ONE WATER TUBE (EXHAUST GAS FIRED ONLY) Working Pressure 200 LBS Tested by Hydraulic Pressure to 400 LBS Date of Test ---

No. of Certificate --- Can each boiler be worked separately ✓ Total Heating Surface of Boilers 1872 sq. ft.

Is forced draught fitted ✓ Area of fire grate (coal) in each Boiler --- BOILER IS EXHAUST GAS FIRED ONLY Total grate area of boilers in vessel including Main and Auxiliary MOTOR VESSEL No. and type of burners (oil) in each boiler --- No. and description of safety valves on each boiler ONE SPRING LOADED Area of each valve 1.77 sq. in. Pressure to which they are adjusted 110 LBS

Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler 6-9 1/2

Smallest distance between boilers or uptakes and bunkers or woodwork --- Height of Boiler --- Width and Length ---

Steam Drums:—Number in each boiler ONE Inside diameter 30" Material of plates STEEL Thickness 7/16

Range of Tensile Strength 60/70000 LBS Are drum shell plates welded or flanged FUSION WELDED Description of riveting:—

Cir. seams FUSION WELDED long. seams FUSION WELDED Diameter of rivet holes in long. seams --- Pitch of Rivets ---

Lap of plate or width of butt straps FUSION WELDED Thickness of straps --- Percentage strength of long. joint:—Plate 90% ALLOWED Rivet ---

Diameter of tube holes in drum 2 3/32" Pitch of tube holes 4 3/8" Percentage strength of shell in way of tubes 58.4%

If Drum has a flat side state method of staying NO FLAT SIDE Depth and thickness of girders at centre (if fitted) NONE Distance apart --- Number and pitch of stays in each --- Working pressure by rules 227 LBS

Steam Drum Heads or Ends:—Material STEEL Thickness 1/2" + 19/32" Radius or how stayed 30" R

Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler NONE Inside Diameter ---

Material of plates --- Thickness --- Range of tensile strength --- Are drum shell plates welded or flanged ---

Description of riveting:—Cir. seams --- long. seams --- Diameter of Rivet Holes in long. seams --- Pitch of rivets ---

Lap of plates or width of butt straps --- Thickness of straps --- Percentage strength of long. joint:—Plate --- Rivet ---

Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of drum shell in way of tubes ---

Water Drum Heads or Ends:—Material --- Thickness --- Radius or how stayed ---

Size of manhole or handhole --- Headers or Sections:—Number ---

Material --- Thickness --- Tested by Hydraulic Pressure to --- Material of Stays ---

Area at smallest part --- Area supported by each stay --- Working Pressure by Rules --- Tubes:—Diameter ---

Thickness --- Number --- Steam Dome or Collector:—Description of Joint to Shell NONE

Percentage strength of Joint --- Diameter --- Thickness of shell plates --- Material ---

Description of longitudinal joint --- Diameter of Rivet Holes --- Pitch of Rivets --- Working Pressure of shell by Rules ---

Crown or End Plates:—Material --- 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 ---

Is a drain cock or valve fitted at lowest point of superheater --- Number, diameter, and thickness of tubes ---

Spare Gear. Tubes --- Gaskets or joints:—Manhole --- Handhole --- Handhole plates ---

The foregoing is a correct description,

Foster Wheeler Corporation Manufacturer.

J. S. Heck Vice Pres.

Dates of Survey 1936 Dec 8, 28 1937 JAN 4 Is the approved plan of boiler forwarded herewith ---

Total No. of visits 3 AT NEW YORK

GENERAL REMARKS

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

The Fusion Welded Drum for the Exhaust Gas

Fired Watertube Donkey Boiler of this vessel has been built under Special Survey in accordance with the Rules & approved plans & the workmanship & material are good. For particulars of tests, please see special report herewith. The Drum has been forwarded to DANVILLE N.Y. to be fitted to the boiler, & when this has been done in accordance with the Rules & to the satisfaction of the Surveyor, it will be eligible, in my opinion, to receive the notation 1 WTDB 200 LBS EXHAUST GAS FIRED ONLY

Survey Fee ... £ \$ 150.00

When applied for, 19th Feb. 1937 at Cleve.

Travelling Expenses (if any) £ \$ 5.00

When received, See bill 815.

John S. Heck

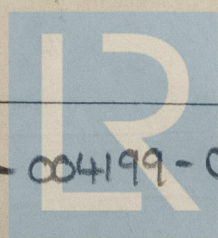
FEE TO BE DIVIDED 50% CLEVELAND 50% N.Y.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK APR 28 1937

Assigned See attached Rpt. Phl. 7272



© 2020

Lloyd's Register Foundation

00494-00499-0095