

REPORT ON WATER TUBE BOILERS.

No. 40511

FEB 17 1941

Received at London Office

Date of writing Report 5 Oct 1940 When handed in at Local Office 5 Oct 1940 Port of NEW YORK

No. in Survey held at NEW YORK Date, First Survey 8 July Last Survey 25 Aug 1940
 Reg. Bk. on the SUN S. B. Co. Hull N° 196 (Number of Visits 4) Tons { Gross 11,355
 Net 6891
 Master ✓ Built at CHESTER PA By whom built SUN S. B. Co. When built 1940
 Engines made at CHESTER PA By whom made SUN S. B. Co. When made 1940
 Boilers made at CARTARET N.J. By whom made FOSTER WHEELER CORP. When made 1940
 Registered Horse Power 1590 Owners SUN OIL Co. Port belonging to

WATER TUBE BOILERS—~~MAIN, AUXILIARY, OR~~ DONKEY.—Manufacturers of Steel BETHLEHEM STEEL Co.(Letter for Record) Date of Approval of plan 12 MAR 1940 Number and Description or Type 490 DRUM
 of Boilers 1 CARGO BOILER (SECTIONAL HEADER TYPE) Working Pressure 245 LBS Tested by Hydraulic Pressure to 368 LBS Date of Test DRUM 16/7/40No. of Certificate PHILADELPHIA Can each boiler be worked separately YES Total Heating Surface of Boilers 5260 SQ. FT.Is forced draught fitted YES Area of fire grate (coal) in each Boiler OIL FIREP Total grate area of boilers in vessel includingMain and Auxiliary Two Spring Loaded No. and type of burners (oil) in each boiler 5 No. and description of safety valves on each boiler Rule says 32-1 in 4000 lb. superheated Pressure to which they are adjusted Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler DIESEL ENG SHIP
 Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 13'4" OF DRUM Width and Length 16'1/4 x 12'8 3/4Steam Drums:—Number in each boiler ONE Inside diameter 42" Material of plates STEEL Thickness 15/16"Range of Tensile Strength 60000 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 FUSION WELDED Pitch of Rivets Lap of plate or width of butt straps Thickness of straps Percentage strength of long. joint:—Plate 90% ALLIRED Rivet Diameter of tube holes in drum 4 3/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 424If Drum has a flat side state method of staying NO FLAT SIDE Depth and thickness of girders at centre(if fitted) Distance apart Number and pitch of stays in each Working pressureby rules 250 Steam Drum Heads or Ends:—Material STEEL Thickness 15/16" Radius or how stayed 42" RSize 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 weldedor flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes inlong. 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 22Material STEEL Thickness 1/16" Tested by Hydraulic Pressure to 368 LBS Material of Stays Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 2"Thickness 1/34" Number 748 Steam Dome or Collector:—Description of Joint to Shell NONEPercentage strength of Joint Diameter Thickness of shell plates Material Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shellby Rules Crown or End Plates:—Material Thickness How stayed SUPERHEATER. Type RADIANT Date of Approval of Plan 12/3/40 Tested by Hydraulic Pressure to 368 LBSDate 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 28 - 2" - 1/48"Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

J. J. Relis Manufacturer.

VICE-PRESIDENT

Foster Wheeler Corporation

Dates of Survey { During progress of work in shops - - } 1940 8, 11, 16 July 28 Aug
 while building { During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith Total No. of visits

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

The Fusion Welded Drum for this boiler has been built & tested in accordance with the approved plan & Rules for Fusion Welded Pressure Vessels & the workmanship & material are good. For particulars of tests please see report hereto attached. The drum has been forwarded to Chester Pa to be fitted on board & when this has been done in accordance with the Rules & to the satisfaction of the Surveyor, the vessel will be eligible, in my opinion, to receive the notation 3 W.T.D.B. (1 Spht) 245 lbs.

Survey Fee ... £ \$ 175⁰⁰ : } When applied for, 4 JAN. 1941 AT PHIL.
 Travelling Expenses (if any) £ : 6⁰⁰ : } When received, 19

John S. Heck

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See attached Report Phil. No. 7969.

NEW YORK JAN 8 - 1941



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