

REPORT ON WATER TUBE BOILERS.

No. 7272

Received at London Office MAY 10 1937

Date of writing Report 14th April 1937 When handed in at Local Office 15th April 1937 Port of Philadelphia

No. in Reg. Bk. Survey held at Chester Pa Date, First Survey Dec 8 Last Survey March 30 1937

on the M V. TEXAS SUN (Number of Visits 8) Tons } Gross

Master Built at Chester Pa By whom built Fun Ship Bldg Co When built 1937

Engines made at Chester Pa By whom made Fun Ship Bldg Co When made "

Boilers made at Carteret N.J. Danville M. By whom made Foster Wheeler Corp. When made "

Registered Horse Power 1145 Owners Fun Gil Co Port belonging to Philadelphia

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY. — Manufacturers of Steel Lukens Steel Co

(Letter for Record 5) Date of Approval of plan Nov 4 1937. Number and Description or Type of Boilers Water tube. Exhaust gas fired only. Working Pressure 200 lb Tested by Hydraulic Pressure to 400 Date of Test March 16

No. of Certificate 698 Can each boiler be worked separately Total Heating Surface of Boilers 1872

Is forced draught fitted No Area of fire grate (coal) in each Boiler - Total grate area of boilers in vessel including Main and Auxiliary -

each boiler 21 Spring loaded No. and type of burners (oil) in each boiler 1.09 No and description of safety valves on each boiler 110 lb

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

Smallest distance between boilers or uptakes and bunkers or woodwork 30" Height of Boiler 6-7 1/2" Width and Length 7/16"

Steam Drums:—Number in each boiler 1 Inside diameter 30" Material of plates Steel Thickness 7/16"

Range of Tensile Strength 60/70000 lb 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 - Thickness of straps - Percentage strength of long. joint:—Plate 90% allowed Rivet -

Diameter of tube holes in drum 2 1/32" Pitch of tube holes 4 7/8" 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) -

by rules 227 lb Steam Drum Heads or Ends:—Material Steel Thickness 1/2" & 19/32 Radius or how stayed 30 Radius

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 -

Radius or how stayed - Size of manhole or handhole - Water Drum Heads or Ends:—Material - Thickness -

Material Steel Thickness Fr. Hy pipe Tested by Hydraulic Pressure to 400 lb. Material of Stays -

Area at smallest part - Area supported by each stay - Working Pressure by Rules - Tubes:—Diameter 2"

Thickness 11 BWG Number 48 Elements 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,

Manufacturer.

Dates of Survey } During progress of work in shops -- } Dec 8, 28. 1936. Jan 4, 20. 1937. Is the approved plan of boiler forwarded herewith Yes
while building } During erection on board vessel --- } Feb 5, 8. March 16. 30. Total No. of visits 8.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boiler has been built under special survey, and in accordance with the approved plans, the workmanship & materials are good. The boiler has been satisfactorily installed on board the vessel, tested by hydraulic pressure to 165 lb & safety valves adjusted under steam to 110 lb. In my opinion it is eligible to receive the notation of 1 WTDB 200 lb exhaust gas fired only.

Survey Fee Installation \$25.00 Fun Ship When applied for 20th April 1937

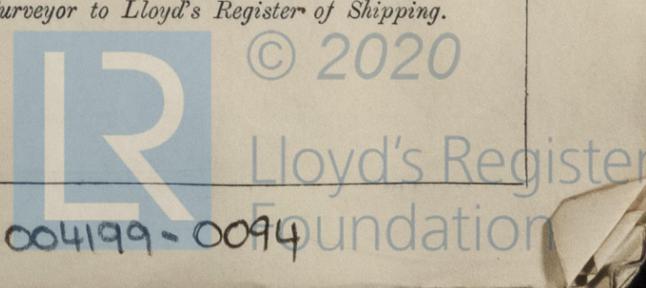
Travelling Expenses (if any) £ - When received 10.6 37

Fee charged at Cleveland W.D. Cumham

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute N.Y. APR 28 1937

Assigned 1 WTDB (Upper) 200 lb Exhaust Gas Fired



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