

AIR TANK. REPORT ON WATER TUBE BOILERS.

No. 8291

Received at London Office

25 JAN 1943

Date of writing Report

19

When handed in at Local Office

19

Port of

Philadelphia

No. in

Survey held at

Lechester Pa

Date, First Survey

7 May 1942

Last Survey

24 Sept 1942

1942

Reg. Bk.

on the S/S GULF MARACAIBO.

(Number of Visits 2)

Gross 9306

Tons

Net

Master

Built at

Lechester Pa

By whom built

Fm DB 2 DD Co

When built

1942

Engines made at

Birmingham Pa

By whom made

Westinghouse Eng Co

When made

"

Boilers made at

Lechester Pa

By whom made

Fm DB 2 DD Co

When made

"

Registered Horse Power

900 972

Owners

Gulf Oil Co

Port belonging to

Philadelphia

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel

Worth Steel Co

(Letter for Record

Date of Approval of plan

Aug 7 1941

Number and Description or Type

of Boilers

1 Air tank

Working Pressure

100

Tested by Hydraulic Pressure to

300

Date of Test

7 May 42

No. of Certificate

742

Can each boiler be worked separately

Total Heating Surface of Boilers

30 cu ft

Is forced draught fitted

Area of fire grate (coal) in each Boiler

Total grate area of boilers in vessel including

Main and Auxiliary

No. and type of burners (oil) in each boiler

No and description of safety valves on

each boiler

1 Spring loaded

Area of each valve

7854"

Pressure to which they are adjusted

100 lbs

Are they fitted with easing gear

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

Height of Boiler

Width and Length

Steam Drums:—Number in each boiler

Inside diameter

32"

Material of plates

O H Steel

Thickness

5/16"

Range of Tensile Strength

156 65000 lbs

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 plate 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 shell in way of tubes

If Drum has a flat side state method of staying

Depth and thickness of girders at centre

(if fitted)

Distance apart

Number and pitch of stays in each

Working pressure

by rules

Steam Drum Heads or Ends:—Material

O H Steel

Thickness

7/16"

Radius or how stayed

30"

Size of Manhole or Handhole

15' X 11'

Water Drums:—Number in each boiler

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

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

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

During progress of

7 May 1942

while

work in shops - -

building

During erection on

24 Sept 1942

board vessel - - -

Is the approved plan of boiler forwarded herewith

No

Total No. of visits

GENERAL REMARKS

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

This air tank has been constructed

under Special Survey in accordance with the approved plans, the workmanship & materials are good. It has met all the requirements of the Society's Rules & has been satisfactorily installed on board the vessel. Copy of results attached.

Survey Fee

As agreed 30.00

When applied for,

12th Dec 1942

Travelling Expenses (if any)

2.00

When received,

19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK DEC 16 1942

Assigned

See First Entry Report attached

Lloyd's Register
Foundation