

Rpt. 5c.

# REPORT ON WATER-TUBE BOILERS

No. 7585

Date of writing Report 18th Dec. 19 41

When handed in at Local Office 19th Dec. 19 41

Received at London Office

21 MAY 1942

No. in Survey held at Sparrows Point, Md.

Port of Baltimore, Maryland

Date, First Survey 3rd Feb. 1941 Last Survey 16th May, 19 41

on the S. S. "CADDQ" (No. 4354)

(Number of Visits 3) Gross 2890 Tons Net 5928

Built at Sparrows Point, Maryland

By whom built Bethlehem Steel Company

When built 1941

Engines made at Essington, Pa.

By whom made Westinghouse &amp; M Co.

When made 1941

Boilers made at Carteret, N. J.

By whom made Foster-Wheeler Corp.

When made 1941

Nominal Horse Power 2337

Owners Socony-Vacuum Oil Co.

Port belonging to New York, N. Y.

## WATER-TUBE BOILERS

### SMALL COMPRESSOR AIR TANK

Date of Approval of plan January 18th, 1939

one 30" Intr. Dia. Air Tank

Working Pressure 100 lbs

Number and Description or Type

No. of Certificate - Can ~~not~~ be worked separately Yes

Tested by Hydraulic Pressure to 200 lbs Date of Test 6-3-41

Is forced draught fitted -

Area of fire grate (coal) in each Boiler -

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

Tank: - one 1" Spring loaded

Area of each set of valve approx. 7854 sq. ins.

No. and description of safety valves on

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 between tank and boiler~~ 9"

Height of boiler - Width and Length -

Steam Drums: - Number in each boiler One

Inch diameter 30 ins.

Thickness of plates 5/16"

Range of Tensile Strength 54300 lbs. per sq. in.

Are drum shell plates welded or flanged Welded

Description of riveting: -

Cir. seams Fusion Weld long. seams Fusion Weld

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% ~~90%~~ allowed

Diameter of tube holes in drum -

Pitch of tube holes -

Percentage strength of shell in way of tubes -

Working pressure by rules -

Range of tensile strength 50000 min

Thickness of plates 5/16

Radius or how stayed 30"

Size of ~~manhole~~ handhole 4-7/8 x 3-1/4

Working pressure by rules -

Water Drums: - Number

in each boiler -

Inside Diameter -

Thickness of plates -

Range of tensile strength -

Are drum shell plates

welded or flanged -

Description of riveting: - Cir. seams -

long. seam -

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 -

Working pressure by rules -

Water Drum Heads or Ends: - Range of

Tensile strength -

Thickness of plates -

Radius or how stayed -

Size of manhole or handhole -

Working pressure by rules -

Headers or Sections: - Number -

Material -

Thickness -

Tested by Hydraulic Pressure to -

Tubes: - Diameter -

Thickness -

Number -

Steam Dome or Collector: - Description of Joint to Shell

Inside diameter -

Thickness of shell plates -

Range of tensile strength -

Description of longitudinal joint -

Diameter of rivet holes -

Pitch of rivets -

Lap of plate or width of

butt straps -

Thickness of straps -

Percentage strength of long. joint -

Plate -

Rivet -

Working Pressure of shell by rules -

Crown or End Plates: - Range of tensile strength -

Thickness -

Radius or how stayed -

Working pressure by rules -

SUPERHEATER. Drums or Headers: - Number in each boiler

Thickness -

Material -

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 -

Working pressure by rules -

Drum Heads or Ends: -

Thickness -

Range of tensile strength -

Radius or how stayed -

Size of manhole or handhole -

Working pressure by rules -

Number, diameter, and thickness of tubes

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

No. and description of Safety Valves -

Area of each set of valves -

Pressure to which they are adjusted -

Is easing gear fitted -

Spare Gear. Has the spare gear required by the rules been supplied -

The foregoing is a correct description,

J. A. Hodge

Manufacturer.

Dates of Survey During progress of work in shops - 3rd Feb., 6th March, 1941

while building During erection on board vessel - 16th May, 1941

Is the approved plan of Tank forwarded herewith No.

Total No. of visits 3

Is this ~~boiler~~ a duplicate of a previous case Yes

If so, state vessel's name and report No. "MOBILUBE" 6825

## GENERAL REMARKS

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

This small air tank for compressed air system has been constructed under special survey and in accordance with the approved plan. The workmanship and material are good. The tank has now been installed on vessel and seen under working conditions.

Fee ... £ 40.00

When applied for, Dec. 18, 19 41

Travelling Expenses (if any) £ 5.00

When received, 19

Committee's Minute

Assigned See attached Trust buty list

Robert W. Sturges  
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation

006126-006139-0235