

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

Phl. Rpt. No. 6112

No. 3765.

23 JUN 1930

Received at London Office

Date of writing Report

22.4.1930
MAY 20th 1930

When handed in at Local Office

22.4.1930
MAY 20th 1930

Port of

NEW ORLEANS, LA.
AND PHILADELPHIA.

No. in

Survey held at

CHATTANOOGA, TENN.
AND CHESTER, PA.

Date, First Survey

and

Last Survey

MARCH 6 1930.

Reg. Bt.

on the

SUNSHIP BUILDING CO. HULL No. 123. "WESTERN SUN"

Number of Visits

Tons

Gross 9089.

Net 5562.

Master

Built at

CHESTER, PA.

By whom built

SUN S.B. & D. CO.

When built

1930.

Engines made at

CHESTER, PA.

By whom made

Do.

When made

1930.

Boilers made at

CHATTANOOGA.

By whom made

THE HEDGES, WALSH, WEIDNER CO.

When made

1930.

Registered Horse Power

2800.

Owners

MOTOR TANKSHIP CORP.

Port belonging to

PHILADELPHIA.

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

NORTH STEEL CO.

(Letter for Record

(S)

Date of Approval of plan

6.1.30 217 lbs.

Number and Description or Type

of Boilers

ONE WATER TUBE.

Working Pressure

200

Tested by Hydraulic Pressure to

350

Date of Test

6.3.30

No. of Certificate

108.

Can each boiler be worked separately

—

Total Heating Surface of Boilers

4000 sq. ft.

Is forced draught fitted

No

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

4 COEN TYPE.

No and description of safety valves on

each boiler

TWO, SPRING LOADED.

Area of each valve

12.5 sq. in.

Pressure to which they are adjusted

217 lbs.

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

No WOODWORK.

Height of Boiler

9'-10"

Width and Length

15'-3" X 12'-4"

Steam Drums:—Number in each boiler

ONE

Inside diameter

42"

Material of plates

STEEL

Thickness

1/2"

Range of Tensile Strength

26-30

Are drum shell plates welded or flanged

No.

Description of riveting:—

Cir. seams

D.R.

long. seams

D.B.S.T.R.

Diameter of rivet holes in long. seams

29"

Pitch of Rivets

2 1/8"

Lap of plate or width of butt straps

16 1/2"-21 1/2"

Thickness of straps

7/8"-1 1/2"

Percentage strength of long. joint:—Plate

Rivet

47.2

Diameter of tube holes in drum

4"

Pitch of tube holes

16 1/2"

Percentage strength of shell in way of tubes

29.9

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

STEEL

Thickness

1 1/16" - 1 3/16"

Radius or how stayed

42"

Size of Manhole or Handhole

12" X 16"

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

UPERHEATER. Type

RADIANT

Date of Approval of Plan

Tested by Hydraulic Pressure to

375 lbs.

Date of Test

13.5.30

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

YES.

Diameter of Safety Valve

2"

Pressure to which each is adjusted

220 lbs.

Is easing gear fitted

No.

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,
The Hedges-Walsh-Weidner Co.
by M. Bathman Manufacturer.

Dates

During progress of

MARCH 6.30.

Is the approved plan of boiler forwarded herewith

YES.

of Survey

work in shops - -

1930. APR. 4. 12.24. MAY. 3.9.12.

Total No. of visits

7.

while

During erection on

board vessel - - -

building

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

This boiler has been built under special survey in accordance with the Rules and the approved plan the materials & workmanship are good the drum & headers were tested separately on account of shipping. This boiler in my opinion is eligible to be classed subject to final test after assembly.

Survey Fee

...

100 00

When applied for,

22.4.1930.

BOILER TESTED BY HYDRAULIC PRESSURE

To 375 lbs.

12th MAY.

Travelling Expenses (if any) £

43 90

When received,

23.5.1930

R. Rosworthy

J. H. R. R. R.

Engineer Surveyors to Lloyd's Register of Shipping.

NEW YORK JUN 11 1930

Committee's Minute

Assigned / W.T.D.B. Steam Pressure 217 lb. □"

002798-002807-0026