

REPORT ON WATER TUBE BOILERS.

No. 50691.

Received at London Office

-2 DEC 1930

Date of writing Report

191

When handed in at Local Office

28. 7. 1930

Port of Glasgow.

No. in
Reg. Bk.

Survey held at

Renfrew.

Date, First Survey

25. 3. 30

Last Survey

29th July 1930

on the

Boiler No. 6/1264

S/S "AMOL"

Number of Visits

24

Gross

Net

Master

Built at

By Messrs

By whom built

Cant Navale Trieste

When built

Engines made at

By whom made

When made

Boilers made at

Renfrew.

By whom made

Babcock & Wilcox Ltd

When made

1930.

Registered Horse Power

Owners

Port belonging to

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

S. Colville & Sons.

(Letter for Record

S

Date of Approval of plan

5-5-30.

Number and Description or Type

of Boilers Two Babcock & Wilcox Type

Working Pressure 200

Tested by Hydraulic Pressure to 350 lbs

Date of Test 29.10.30

No. of Certificate

299

Can each boiler be worked separately

yes

Total Heating Surface of Boilers

4068 ft²

Is forced draught fitted

yes

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

3 Todd

No. and description of safety valves on

each boiler 1 Pair 2" Improved H.L. Cockburns

Area of each valve

6.28 sq inches

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

yes

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2'

Height of Boiler

15'-3"

Width and Length

10'-4" x 14'-0"

Steam Drums:—Number in each boiler

One

Inside diameter

3'-5 1/2"

Material of plates

Steel

Thickness

1/32" T.P. 176"

Range of Tensile Strength

28-32 tons

Are drum shell plates welded or flanged

no

Description of riveting:—

Cir. seams D.R. Lap

long. seams D.R.D.B.S.

Diameter of rivet holes in long. seams

27/32"

Pitch of Rivets

3-3 1/3"

Lap of plate or width of butt straps

9" MEAN.

Thickness of straps

17/32"

Percentage strength of long. joint:—Plate

71.88

Rivet

94

Diameter of tube holes in drum

4 3/64"

Pitch of tube holes

7"

Percentage strength of shell in way of tubes

42.2

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

15/16"

Radius or how stayed

3'-0"

Size of Manhole or Handhole

16" x 12"

MUD

Water Drums:—Number in each boiler

One

Inside Diameter

6" x 6"

Material of plates

Steel

Thickness

3/4"

Range of tensile strength

24-28 tons

Are drum shell plates welded

or flanged

Solid drawn

Description of riveting:—Cir. seams

yes

long. seams

yes

Diameter of Rivet Holes in

long. seams

Pitch of rivets

yes

Lap of plates or width of butt straps

yes

Thickness of straps

yes

Percentage strength of long. joint:—Plate

yes

Rivet

yes

Diameter of tube holes in drum

4 3/64"

Pitch of tube holes

7"

Percentage strength of drum shell in way of tubes

42.2

MUD

Water Drum Heads or Ends:—Material

Steel

Thickness

3/4"

Radius or how stayed

Flat

Size of manhole or handhole

yes

Headers or Sections:—Number

14 Pairs per Boiler

Material

Steel

Thickness

7/16"

Tested by Hydraulic Pressure to

400 lbs

Material of Stays

yes

Area at smallest part

yes

Area supported by each stay

yes

Working Pressure by Rules

207 lbs

Tubes:—Diameter

4" 11/16"

Thickness

9/16" 10/16"

Number

430 @ 1 1/2"

42 @ 4"

Steam Dome or Collector:—Description of Joint to Shell

yes

Percentage strength of Joint

yes

Diameter

yes

Thickness of shell plates

yes

Material

yes

Description of longitudinal joint

yes

Diameter of Rivet Holes

yes

Pitch of Rivets

yes

Working Pressure of shell

by Rules

Crown or End Plates:—Material

yes

Thickness

yes

How stayed

yes

SUPERHEATER.

Type

yes

Date of Approval of Plan

yes

Tested by Hydraulic Pressure to

yes

Date of Test

yes

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

yes

Diameter of Safety Valve

yes

Pressure to which each is adjusted

yes

Is easing gear fitted

yes

Is a drain cock or valve fitted at lowest point of superheater

yes

Number, diameter, and thickness of tubes

yes

Spare Gear.

Tubes

yes

Gaskets or joints:—Manhole

yes

Handhole

yes

Handhole plates

yes

The foregoing is a correct description,

Babcock & Wilcox Ltd.

Manufacturer.

Dates of Survey
while building

During progress of work in shops - - -
During erection on board vessel - - -

1930. Mar 25. 26. 29. Apr 1. 24. 22. 25. 30.
May 2. 8. 12. 29. 30. June 2. 4. 12.
June 20. 24. July 1. 7. 10. 4. 19.

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

24

GENERAL REMARKS

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

These Steam and water drums,

Sections, and mud drums have been built under survey in accordance with the Rules and approved plans. The materials and workmanship are good. They are to the order Messrs Cantieri Navale Triestino, Monfalcone and intended for Oil Tanker "AMOL" for erection on board the vessel

3/5 Survey Fee

£ 15 : 13 : 0

When applied for,

Tested to 350 lbs

Travelling Expenses (if any) £

:

When received,

191

MONTHLY ACCOUNT

Committee's Minute

GLASGOW 29 JUL 1930

Assigned

TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 12 DEC 1930

See Encl. 9027

Lloyd's Register Foundation

002298-002304-0202