

SUPPLEMENTARY REPORT ON WATER TUBE BOILERS.

No. 11378
22 OCT 1936

Date of writing Report

19

When handed in at Local Office

19/10/1936

Port of TRIESTE

No. in

Survey held at

Trieste

Date, First Survey

Last Survey

19

Reg. Bk.

3460

on the

Twin Sc. 'CONTE ROSSO'

Number of Visits

Gross 17856

Net 9996

Master

Built at

Glasgow

By whom built

H. Beardmore & Co. Ltd.

When built

1923/3

Engines made at

Zurich

By whom made

E. & F. H. Eng. Works Ltd.

When made

1936

Boiler made at

Vitkovice

By whom made

James Steel & Ironworks Corporation

When made

1936

Registered Horse Power

Owners

Lloyd Trieste

Port belonging to

Trieste

WATER TUBE BOILERS

SUPPLEMENTARY

MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

James Steel & Ironworks Corporation

Letter for Record

Date of Approval of plan

17.7.35, 18.8.35 & 1.4.36

Number and Description or Type

Boiler

Loeffler high pressure

Working Pressure

140 atm

Tested by Hydraulic Pressure to 210 atm. Date of Test 21.7.36

No. of Certificate

Can each boiler be worked separately

Total Heating Surface of Boilers

1067 m²

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, Walloind

No. and description of safety valves on

each boiler

3, improved high lift type, spring loaded

Area of each valve

400.874 m²

Pressure to which they are adjusted 140 atm

Are they fitted with easing gear

yes

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

Minimum distance between boilers or uptakes and bunkers or woodwork

Height of Boiler 4150 m/m. Width and Length 4400 x 4000 m/m.

Drums

Number in each boiler

one

Inside diameter

400 m/m

Material of plates forged, S.M. Steel Thickness 62 m/m.

Range of Tensile Strength

55-63 Kg m/m²

Are drum shell plates welded or flanged, solid forged Description of riveting:

ir. seams

none

long. seams

none

Diameter of rivet holes in long. seams

Pitch of Rivets

ap of plate or width of butt straps

Thickness of straps

Percentage strength of long. joint:—Plate Rivet

diameter of tube holes in drum

none

Pitch of tube holes

Percentage strength of shell in way of tubes

Drum has a flat side state method of staying

Depth and thickness of girders at centre

fitted

Distance apart

Number and pitch of stays in each

Working pressure

rules

140 atm.

Drum Head or End

Material

forged, S.M. Steel Thickness

300 m/m.

Radius or how stayed

Size of Manhole or Handhole

400 x 299 m/m.

Water Drums

Number in each boiler

Inside Diameter

Material of plates

flanged

Thickness

Range of tensile strength

Are drum shell plates welded

flanged

Description of riveting:—Cir. seams

long. seams

Diameter of Rivet Holes in

g. seams

Pitch of rivets

Lap of plates or width of butt straps

Thickness of straps

Pitch of tube holes

Percentage strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Percentage strength of drum shell in way of tubes

Water Drum Heads or Ends:—Material

Thickness

Radius or how stayed

Number

Conv. 6

Size of manhole or handhole

400 x 299 m/m.

Tested by Hydraulic Pressure to

210 atm.

Material of Stays

Conv. 54.5 m/m.

Area at smallest part

Area supported by each stay

Working Pressure by Rules

140 atm

Tubes:—Diameter

Conv. 26 m/m.

Thickness

Conv. 4 m/m

Conv. 5 m/m

Number

Conv. 420

Conv. 527

Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint

Diameter

Thickness of shell plates

Material

Working Pressure of shell

Description of longitudinal joint

Diameter of Rivet Holes

Pitch of Rivets

Working Pressure of shell

Rules

Crown or End Plates:—Material

Thickness

How stayed

PERHEATER.

Type

Date of Approval of Plan

Date of Test

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

Pressure to which each is adjusted

Is easing gear fitted

Diameter of Safety Valve

Number, diameter, and thickness of tubes

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

Pressure Gear.

Tubes

Gaskets or joints:—Manhole

Handhole

Handhole plates

The foregoing is a correct description,

Manufacturer.

Dates

During progress of

work in shops - - -

Is the approved plan of boiler forwarded herewith

no

while

During erection on

board vessel - - -

Total No. of visits

GENERAL REMARKS

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

This boiler has been built at Vitkovice under the supervision of the Vienna Surveyors & subsequently erected at this port. All materials including valves & fittings have been tested to the special requirements approved in this case & in accordance with the approved plans. The workmanship is good and the boiler has been satisfactorily fitted on board. Plans & material certificates already in London.

Survey Fee

£

:

:

When applied for,

19

Travelling Expenses (if any) £

:

:

When received,

19

Committee's Minute

FRI, 13 NOV 1936

FRI, 20 NOV 1936 Engineer Surveyor to Lloyd's Register of Shipping.

FRI 5 FEB 1937

signed

See minute
2nd Oct. 1936



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Lloyd's Register
Foundation

REPORT ON WATER TUBE BOILERS

22 OCT 1938

Boiler No. 1000
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1001
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1002
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1003
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1004
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1005
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1006
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1007
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Boiler No. 1008
Capacity 1000 lbs.
Pressure 150 psi.
Temperature 250 F.
Location: ...

Wied
G.P.
16/10/38
Note: The high pressure boiler
is subject to survey at
intervals of 6 months.
The next survey will
be due 3-3-39.
J.H.
Noted for S.R.L.
G.P.

LR-FAP-TB-75