

Rpt. 5.

# REPORT ON BOILERS.

No. 1668.

Port of LISBON.

Received at London Office 9 JUL 1927

No. in Survey held at LISBON

Date, first Survey JANUARY 1927

Last Survey FEBRUARY 1927

(Number of Visits ✓)

Reg. Book.

77454 on the ST. SC. SR. MIRANDELLA

Gross 5105.

Net 3244.

Master ✓

Built at

VEGESACK

By whom built

BREMER VULCAN

When built

1906.

Engines made at

VEGESACK

By whom made

4

4

when made

4

Boilers made at

4

By whom made

4

4

when made

4

Registered Horse Power

Owners SOCIEDADE GERAL DE

COMMERCIO INDUSTRIA E

Port belonging to

LISBON.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY, Manufacturers of Steel

(Letter for record)

✓ 48B

Total Heating Surface of Boilers

8640

Is forced draft fitted

YES

No. and Description of

Boilers H. S. E. CYLINDRICAL FIRE TUBE.

Working Pressure

16 kg.

Tested by hydraulic pressure to

Date of test

No. of Certificate

✓

Can each boiler be worked separately

YES

Area of fire grate in each boiler

51.5 sq.

No. and Description of

safety valves to each boiler

DOUBLE SPRING LOADED IN ONE CHEST.

Area of each valve

9.62 sq.

Pressure to which they are adjusted

16 kg + 2 1/2 %

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

18"

INSIDE

dia. of boilers

13'-7 1/2"

Length

12'-1 1/2"

Material of shell plates

STEEL

Thickness

1 1/8"

Range of tensile strength

45,700 kg.

Are the shell plates welded or flanged

FLANGED

Descrip. of riveting: cir. seams

DOUBLE

long. seams

QUADRUPLE

Diameter of rivet holes in long. seams

ABOUT 1 1/8"

Pitch of rivets

2 1/4"

Top of plates or width of butt straps

3 1/2"

Per centages of strength of longitudinal joint

rivets

106.2

Working pressure of shell by

rules

253 lbs

Size of manhole in shell

15 1/4" x 12"

Size of compensating ring

1 1/8"

Thick

No. and Description of Furnaces in each

boiler

3

CORRUGATED MORISON SEC.

Description of longitudinal joint

✓

No. of strengthening rings

4 PER

Working pressure of furnace by the rules

268

Combustion chamber

plates: Material

STEEL

Thickness: Sides

23"

Back

3"

Top of plates

7 1/4" x 7 1/8"

If stays are fitted with nuts or riveted heads

BACK & SIDES

TOP RIVETED HEADS.

Working pressure by rules

307

Material of stays

STEEL

Diameter at

smallest part

1 1/2"

Area supported by each stay

590"

Pitch of stays

14 1/4" x 14 1/8"

How are stays secured

NUTS, INS

4 OUT

Working pressure by rules

Material of stays

STEEL

Diameter at smallest part

2 1/8"

Area supported by each stay

20850"

Working pressure by rules

Material of Front plates at bottom

Lower back plate

STEEL

Thickness

1 1/8"

Greatest pitch of stays

23 3/4"

Working pressure of plate by rules

Diameter of tubes

3"

Pitch of tubes

4 1/4"

Material of tube plates

STEEL

Thickness: Front

Pitch of tubes

14 1/8"

Working pressures by rules

Girders to Chamber tops: Material

STEEL

Depth and thickness of

order at centre

10" x 3 1/4"

Length as per rule

Distance apart

7 1/4"

Number and pitch of Stays in each

3-7 3/8"

Working pressure by rules

Superheater or Steam chest, how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

if stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Top of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Plates

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates { During progress of work in shops - - }  
Survey { During erection on board vessel - - }  
while building { Total No. of visits

Is the approved plan of main boiler forwarded here

ALREADY REGISTERED AT LONDON OFFICE

Marks this? Please see Lisbon letter dated 5 July 1927

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

All four boilers are well constructed with good material & as advised in Report No. 1660, together with machinery recommended for class with record of L.M.C. 5. 1927. in the Register Book.

Leedrummet

5<sup>th</sup> July 1927.

Certificate (if required) to be sent to

The amount of Entry Fee...	When applied for.	19
Special ...	When received.	19
Donkey Boiler Fee ...		
Travelling Expenses (if any) £		

*Included in total fees & expenses.*

Leedrummet  
Assistant Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 14 FEB 1928

TUE. 11 SEP 1928

TUE. 11 DEC 1928

FRI. 15 FEB 1929

Assigned

*See Lis 244 No 1660*



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