

Rpt. 5a.

REPORT ON BOILERS.

No. 14214

Received at London Office 16 SEP 1930

Date of writing Report

11. 9. 30

When handed in at Local Office

11. 9. 30

Port of MIDDLESBROUGH.

No. in Survey held at

STOCKTON.

Date, First Survey

12 June 30

Last Survey

11. 9. 1930.

78059 on the boiler for s/s. MAROUSSIO COULOUTHROS

(Number of Visits)

17

Tons

Gross 3556.

Net 2288.

Master

Built at Newcastle

By whom built Tyne I.S.B. Co. Ltd.

Yard No.

When built 1907.2.

Engines made at

Sunderland

By whom made

J. Dickinson & Sons Ltd

Engine No.

When made 1907.

Boilers made at

Stockton

By whom made

Riley Bros. (Boilermakers) Ltd

Boiler No.

6025 When made 1930

Nominal Horse Power

Owners A. M. Coulouthros

Port belonging to

Andros.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

David Colville & Sons Ltd.

(Letter for Record S.)

Total Heating Surface of Boilers

830 sq. ft.

Is forced draught fitted

no

Coal or Oil fired

coal.

No. and Description of Boilers

1 S.B.

Working Pressure

120 lbs.

Tested by hydraulic pressure to

230 lbs.

Date of test

11. 9. 30

No. of Certificate

6820.

Can each boiler be worked separately

Area of Firegrate in each Boiler

30 sq. ft.

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per Rule

Pressure to which they are adjusted

Are they fitted with easing gear

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

10' 0"

Length

9' 6"

Shell plates: Material

steel

Tensile strength

29/32.

Thickness

3/32

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end D.R.

Long. seams

T.R.D.B.S. (4 rivets)

Diameter of rivet holes in

circ. seams

3/32

long. seams

13/16

Pitch of rivets

3"

4 7/8"

Percentage of strength of circ. end seams

plate

69.8.

rivets

57

Percentage of strength of circ. intermediate seam

plate

83.3.

rivets

106.6.

Percentage of strength of longitudinal joint

plate

106.6.

rivets

combined

Working pressure of shell by Rules

124 lbs.

Thickness of butt straps

outer

1/2"

inner

1/2"

No. and Description of Furnaces in each Boiler

2 p.f.

Material

steel

Tensile strength

26/30.

Smallest outside diameter

3' 2"

Length of plain part

top

5' 11 3/4"

bottom

6' 6"

Thickness of plates

crown

19/32

bottom

3/32

Description of longitudinal joint

weld.

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

121 lbs.

End plates in steam space: Material

steel

Tensile strength

26/30.

Thickness

7/8"

Pitch of stays

17" x 18" (mean)

How are stays secured

D.N.W.

Working pressure by Rules

150 lbs.

End plates: Material

front

steel

back

steel

Tensile strength

26/30.

Thickness

7/8"

5/8"

Can pitch of stay tubes in nests

10 7/16"

Pitch across wide water spaces

14" x 8 1/2"

Working pressure

front 141 lbs.

back 135 "

Orders to combustion chamber tops: Material

steel

Tensile strength

28/32.

Depth and thickness of girder

centre

6 1/4" x 5" (double)

Length as per Rule

2' 2"

Distance apart

9"

No. and pitch of stays

each

2.8 1/2"

Working pressure by Rules

141 lbs.

Combustion chamber plates: Material

steel

Tensile strength

26/30.

Thickness: Sides

9"

Back

3/32

Top

9"

Bottom

25"

3/32

Pitch of stays to ditto: Sides

10" x 8 1/2"

Back

10" x 10"

Top

9" x 8 1/2"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

121 lbs.

Front plate at bottom: Material

steel

Tensile strength

26/30.

Thickness

7/8"

Lower back plate: Material

steel

Tensile strength

26/30.

Thickness

7/8"

Pitch of stays at wide water space

14" x 10"

Are stays fitted with nuts or riveted over

nuts.

Working Pressure

319 lbs.

Main stays: Material

steel

Tensile strength

28/32.

Diameter

At body of stay,

or

2 1/2"

No. of threads per inch

6.

Area supported by each stay

339 sq. in.

Working pressure by Rules

130 lbs.

Screw stays: Material

steel

Tensile strength

26/30.

Diameter

At turned off part,

or

1 1/2"

No. of threads per inch

9.

Area supported by each stay

98.7 sq. in.

W198-0141

Working pressure by Rules 127 lbs. Are the stays drilled at the outer ends no. Margin stays: Diameter { At turned off part, or Over threads 1 1/4"
No. of threads per inch 9. Area supported by each stay 117.6 Working pressure by Rules 154 lbs.
Tubes: Material vin External diameter { Plain 3 1/4" to 3 7/8" Thickness 10 w.g. No. of threads per inch 9.
Pitch of tubes 4 1/2" x 4 1/2" Working pressure by Rules p. 130 lbs. s. 223 lbs. Manhole compensation: Size of opening in
shell plate 20" x 16" Section of compensating ring 7" x 3/4" No. of rivets and diameter of rivet holes 44 - 29/32"
Outer row rivet pitch at ends 6" Depth of flange if manhole flanged
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off and
the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes castings and after assembly in place Are drain cocks or valves fitted
to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes. FOR

The foregoing is a correct description,

J. H. Shields Manufacture

Dates of Survey { During progress of work in shops - - - 1930 June 15, 23 July 1, 5, 11, 16, 18, 22, 26, 31 Are the approved plans of boiler and superheater forwarded herewith Yes.
while building { During erection on board vessel - - - Aug. 26, 29, Sep. 3, 5, 9, 11 (If not state date of approval.)
Total No. of visits # 17

Is this Boiler a duplicate of a previous case No. If so, state Vessel's name and Report No.

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

The materials and workmanship are good.
This boiler has been built under special survey in accordance
with the Rules and approved Plans.

Survey Fee ... £ 5-10-0 When applied for Monthly
Travelling Expenses (if any) £ : 08/10 When received, 19

P. J. Mac

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI. 7 NOV 1930

FRI. 19 DEC 1930

Assigned

TUE. 2 JUN 1931

TUE. 10 NOV 1931



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FRI. 28 APR 1931

TUE. 24 MAR 1931

Lloyd's Register Foundation

New London Co. built under special