

Newcastle-on-Tyne No. 95088  
**REPORT ON BOILERS.**

No. 20328

Received at London Office

17 MAR 1937

Date of writing Report 18.2.37

When handed in at Local Office 12th March 1937

Port of GreenockNo. in Survey held at  
Reg. Book.Greenock

Date, First Survey

9th June 1936

Last Survey

10th March 1937

on the

M/S Regent Panther(Number of Visits ✓)Gross 9556Net 5799

Master

Built at

Newcastle

By whom built

Sunderland WorksYard No. 1523When built 1937

Engines made at

Greenock

By whom made

John & Thos. & Co. Ltd.Engine No. 1105When made 1937

Boilers made at

ditto

By whom made

dittoBoiler No. 1105When made 1937

Nominal Horse Power

Owners CT Bourne & Co. Ltd. MgrsPort belonging to London**MULTITUBULAR BOILERS ~~MAIN~~, AUXILIARY, OR ~~DONKEY~~.**

Manufacturers of Steel

Steel Co of Scotland Colville, Bargo Fleet(Letter for Record S)

Total Heating Surface of Boilers

1794 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

one single endedWorking Pressure 180

Tested by hydraulic pressure to

320Date of test 26.2.37No. of Certificate 2089Can each boiler be worked separately —

Area of Firegrate in each Boiler

Oil FuelNo. and Description of safety valves to each boiler 2 Cochran Improved High Lift

Area of each set of valves per boiler

{ per Rule

5.4 sq ft

{ as fitted

6.2 sq ft

Pressure to which they are adjusted

180 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

18" ady

Is oil fuel carried in the double bottom under boilers

No ady

Smallest distance between shell of boiler and tank top plating

30" ady

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

3' 4" 29/32Length 11' 0"

Shell plates: Material

STensile strength 29.33

Thickness

3/32"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

{ end

DR

Long. seams

TR & DBS

Diameter of rivet holes in

{ circ. seams

1 1/8"

{ long. seams

3/32"

Pitch of rivets

{ end

3' 22"

{ inter.

47/16"

Percentage of strength of circ. end seams

{ plate

65.1

{ rivets

44.6

Percentage of strength of circ. intermediate seam

{ plate

✓

{ rivets

Percentage of strength of longitudinal joint

{ plate

85.3

{ rivets

86.8

{ combined

84.6Working pressure of shell by Rules 184

Thickness of butt straps

{ outer

2 1/32"

{ inner

2 1/32"

No. and Description of Furnaces in each Boiler

3 Delightous

Material

S

Tensile strength

26.30

Smallest outside diameter

3' 0 15/16"

Length of plain part

{ top

✓

{ bottom

✓

Thickness of plates

{ crown

1 1/32"

{ bottom

1 1/32"

Description of longitudinal joint

weld

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

✓Working pressure of furnace by Rules 182

End plates in steam space: Material

S

Tensile strength

26.30

Thickness

3/32"Pitch of stays 18 1/2" x 18 1/2"

How are stays secured

DN. WashdownWorking pressure by Rules 182

Tube plates: Material

{ front

S

{ back

S

Tensile strength

26.30

Thickness

3/4"

Mean pitch of stay tubes in nests

10' 42"

Pitch across wide water spaces

14"

Working pressure

{ front

184

{ back

204

Girders to combustion chamber tops: Material

S

Tensile strength

29.33

Depth and thickness of girder

at centre 9 1/2 x 7 1/8 (2)

Length as per Rule

37' 4"

Distance apart

8 1/2"

No. and pitch of stays

in each 3 at 9"Working pressure by Rules 205

Combustion chamber plates: Material

S

Tensile strength

26.30

Thickness: Sides

2 1/32"

Back

2 1/32"

Top

2 1/32"

Bottom

2 1/32"

Pitch of stays to ditto: Sides

9 1/4 x 9"

Back

8 1/2 x 9"

Top

9 x 8 1/2"

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

180

Front plate at bottom: Material

S

Tensile strength

26.30

Thickness

1"

Lower back plate: Material

S

Tensile strength

26.30

Thickness

2 5/32"

Pitch of stays at wide water space

13 3/4"

Are stays fitted with nuts or riveted over

Nuts

Working Pressure

186

Main stays: Material

S

Tensile strength

26.32

Diameter

{ At body of stay,

2 3/4"

{ or

✓

{ Over threads

✓

No. of threads per inch

S

Area supported by each stay

232.25 sq in

Working pressure by Rules

191

Screw stays: Material

S

Tensile strength

26.30

Diameter

{ At turned off part,

1 5/8"

{ or

✓

{ Over threads

✓

No. of threads per inch

9

Area supported by each stay

83.25 sq in



Working pressure by Rules 198 Are the stays drilled at the outer ends ✓ Margin stays: Diameter { At turned off part, 1 3/4" or Over threads ✓  
No. of threads per inch 9 Area supported by each stay 100 sq. in. Working pressure by Rules 181  
Tubes: Material Iron External diameter { Plain 3" Stay 3" Thickness { 9 WG 1/4" 5/16" No. of threads per inch 9  
Pitch of tubes 4 1/4" x 4 5/16" Working pressure by Rules 193 Manhole compensation: Size of opening in  
shell plate 16 1/2" x 20 1/2" Section of compensating ring 2-11" x 2-4" x 1 1/4" No. of rivets and diameter of rivet holes 38 at 1 5/16"  
Outer row rivet pitch at ends 9 Depth of flange if manhole flanged 3 1/4" Steam Dome: Material  
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  
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

The foregoing is a correct description,  
For JOHN G. KINCAID & CO. LIMITED.

*W. E. Carter* Director.

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Yes  
while building { During erection on board vessel - - - Total No. of visits ✓  
SEE MACHINERY REPORT.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. *M/S Regent Lion E.R. Rpt 2030*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This Boiler has been built under special survey in accordance with the approved plan, & the workmanship & material are of good quality. This Report accords with that of the Machinery*

*This Waste Gas & Oil fired Donkey Boiler has been satisfactorily fitted on the Starboard side in the Stokhold abaft of the Eng. Rm., on the 2nd deck having access from the E.R.*

*The Safety valves were adjusted to 180 lbs/p, the accumulation test was satisfactory, and easing gear has been fitted.*

*A. Watt*  
*Newcastle on June 27/37*

Survey Fee £ *Charged on Machinery Dept* When applied for, 19  
Travelling Expenses (if any) £ When received, 19

*W. E. Gordon-Mitchell*  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 16 MAR 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT.

TUE 1 JUN 1937  
*See Mac J.B. 92020*

Lloyd's Register  
Foundation