

REPORT ON BOILERS.

No. 29899

Received at London Office 30 NOV 1928

Date of writing Report

192

When handed in at Local Office

29 NOV 1928

Port of Lundeland

No. in Survey held at

Lundeland

Date, First Survey

Last Survey

Nov. 29 1928

on the

TWIN S.S. "PAQUITA"

(Number of Visits

Gross 2618
Tons Net 1179

Master

Built at

Lundeland

By whom built

L. J. James & Co. Ltd.

Yard No.

704

When built

1928

Engines made at

Lundeland

By whom made

George Rank Ltd.

Engine No.

11643

When made

1928

Boilers made at

do

By whom made

do

Boiler No.

11643

When made

1928

Indicated Horse Power

234

Owners

Anglo-Lux Petroleum Co. Ltd.

Port belonging to

Villanova

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

J. Colville & Co.

(Letter for Record 5)

Total Heating Surface of Boilers

4038 sq. ft.

Is forced draught fitted

Yes

Coal or Oil fired

oil

No. and Description of Boilers

Two 6 ft. diam. single ended.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

320 lbs.

Date of test

20/9/28

No. of Certificate

4007

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 4 1/2" loaded

Area of each set of valves per boiler

(per Rule

7.73

Pressure to which they are adjusted

185 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

6'-0"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and

TOP OF FLOORS

2'-0"

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

13'-0"

Length

12'-3"

Shell plates: Material

Steel

Tensile strength

29 to 33 tons

Thickness

1 3/4"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

J.R.L.

Long. seams

T.R. J.B.S.

Diameter of rivet holes in

(circ. seams

1 1/8"

Pitch of rivets

3 5/8"

Percentage of strength of circ. end seams

(plate

86.2%

(rivets

45.4%

Percentage of strength of circ. intermediate seam

(plate

85.36%

(rivets

91.8%

Percentage of strength of longitudinal joint

(plate

85.36%

(rivets

91.8%

Working pressure of shell by Rules

181.5 lbs.

Thickness of butt straps

(outer

1 3/8"

No. and Description of Furnaces in each Boiler

Two Morins horizontal

Material

STEEL

Tensile strength

26 to 30 tons

Smallest outside diameter

44 5/8"

Length of plain part

(top

7'-9"

Thickness of plates

(crown

7/16"

Description of longitudinal joint

Welded

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

Working pressure of furnace by Rules

183 lbs.

End plates in steam space: Material

Steel

Tensile strength

26 to 30 tons

Thickness

1 5/8"

Pitch of stays

20" x 16 3/4"

How are stays secured

J.N.Y.W.

Working pressure by Rules

182 lbs.

End plates: Material

(front

Steel

Tensile strength

26 to 30 tons

Thickness

1 3/4"

Can pitch of stay tubes in nests

9 1/4"

Pitch across wide water spaces

13 3/4" x 7 3/4"

Working pressure

(front

425 lbs.

(back

235 "

Orders to combustion chamber tops: Material

STEEL

Tensile strength

Depth and thickness of girder

Centre

9 1/4" x 13 1/4"

Length as per Rule

37 1/4"

Distance apart

9 1/2"

No. and pitch of stays

Each

3 @ 9"

Working pressure by Rules

183 lbs.

Combustion chamber plates: Material

STEEL

Tensile strength

26 to 30 tons

Thickness: Sides

23/32"

Back

23/32"

Top

23/32"

Bottom

7/8"

Pitch of stays to ditto: Sides

9 x 7 1/4"

Back

9 x 7 1/4"

Top

9 x 9 1/2"

Are stays fitted with nuts or riveted over

NUTS

Working pressure by Rules

181 lbs.

Front plate at bottom: Material

STEEL

Tensile strength

26 to 30 tons

Thickness

1"

Lower back plate: Material

STEEL

Tensile strength

26 to 30 tons

Thickness

1"

Pitch of stays at wide water space

15" x 9"

Are stays fitted with nuts or riveted over

RIVETTED INNER ROWS

NUTS MARGINS

Working Pressure

181 lbs.

Main stays: Material

STEEL

Tensile strength

28 to 32 tons

Diameter

(At body of stay,

2 3/4"

No. of threads per inch

6

Area supported by each stay

328 sq. in.

(Over threads

3 5/8"

Working pressure by Rules

198 lbs.

Screw stays: Material

STEEL

Tensile strength

26 to 30 tons

Diameter

(At turned off part,

1 1/2"

No. of threads per inch

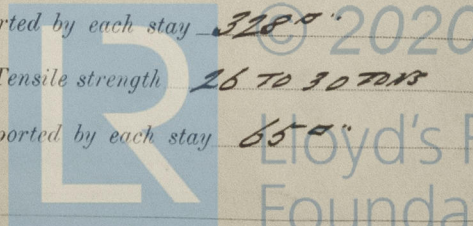
9

Area supported by each stay

65 sq. in.

(Over threads

1 1/2" DIA.



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Working pressure by Rules 192 LBS Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 1/4" or Over threads 1 1/4" Working pressure by Rules 181 LBS

No. of threads per inch 9 Area supported by each stay 100"

Tubes: Material S. I. STEEL External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { 8/16 No. of threads per inch 9

Pitch of tubes 4" x 3 7/8" Working pressure by Rules 228 LBS Manhole compensation: Size of opening in shell plate 20" x 16" Section of compensating ring 10 5/8" x 1 1/8" No. of rivets and diameter of rivet holes 40 @ 1 3/16"

Outer row rivet pitch at ends 8 1/2" Depth of flange if manhole flanged 3 1/2" 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 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 23 inclusive for boilers been complied with Yes.

The foregoing is a correct description,
FOR GEORGE CLARK LIMITED.

W. S. Spruce

Manufacturer.

Dates of Survey { During progress of work in shops - - - while building { During erection on board vessel - - -

Please see Mch. Rpt.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits

GENERAL REMARKS

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

The boilers of this vessel have been built under Special Survey & the materials & workmanship are good. On completion they were tested by hydraulic pressure found sound & tight & afterwards satisfactorily fitted on board the vessel. The boilers are fitted for burning oil fuel & comply with Section 35 of the Rules fully complied with. For notation see machinery report.

Survey Fee £

Travelling Expenses (if any) £

When applied for, 192

When received, 192

Harbottle
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 4 DEC 1920

Assigned see Minute on Sld Rpt
29899 attached



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Foundation