

REPORT ON BOILERS.

No. 74,311

Received at London Office

WED. APR. 27 1921

Date of writing Report 22. 4. 1921 When handed in at Local Office

26 April 1921 Port of

NEWCASTLE ON TYNE

No. in Survey held at Hebburn

Date, First Survey 29th Sept 1919

Last Survey 23rd April 1921

Reg. Book.

on the Main Boilers - 974-975 -

S/S. ~~David Dominigue~~

SAINT ROMINIQUE

Number of Visits 46

Gross

Tons

Net

Master

Built at Hull

By whom built Livingston & Cooper. (1893)

When built 1921.

Engines made at

By whom made

When made

Boilers made at Hebburn

By whom made

Palmer's & J. Co. Ltd. 974
975

When made 1921 - 4

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Sons Ltd

(Letter for record S)

Total Heating Surface of Boilers 4104

Is forced draft fitted No

No. and Description of

Boilers two SE 64l. multitubular

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 19.8.20

No. of Certificate 9448 Can each boiler be worked separately Yes

Area of fire grate in each boiler 63 sq

No. and Description of

safety valves to each boiler 2 Spring loaded

Area of each valve 12.5 sq

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

Smallest distance between boilers on uptakes and bunkers on woodwork 8'-6"

Internal

Mean dia. of boilers 14'-9 9/16" Length 10'-6"

Material of shell plates Steel

Thickness 1 7/32"

Range of tensile strength 28/32

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR Lap

long. seams TR DBS

Diameter of rivet holes in long. seams 1 9/32"

Pitch of rivets 2 Rows 4 7/16"

plates or width of butt straps 18 3/4"

Per centages of strength of longitudinal joint

rivets 89.25%

Working pressure of shell by

plate 85.6%

rules 194 lbs

Size of manhole in shell 16"x12"

Size of compensating ring 14"x1 7/8"x1 3/2"

No. and Description of Furnaces in each

boiler 3. Morrison

Material Steel

Outside diameter 45 3/4"

Length of plain part

Thickness of plates crown 9/16" bottom

Description of longitudinal joint weld.

No. of strengthening rings

Working pressure of furnace by the rules 192 lbs

Combustion chamber

plates: Material Steel

Thickness: Sides 21/32"

Back 21/32"

Top 21/32"

Bottom 1"

Pitch of stays to ditto: Sides 9"x8 1/2" Back 9"x9"

Top 8 1/2"x8" If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 183 lbs

Material of stays Steel

Area at

smallest part 2.03 sq

Area supported by each stay 110 sq

Working pressure by rules 192 lbs

End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 20"x20"

How are stays secured 8 nuts & washers

Working pressure by rules 185 lbs

Material of stays Steel

Area at smallest part 8.48 sq

Area supported by each stay 400 sq

Working pressure by rules 220 lbs

Material of Front plates at bottom Steel

Thickness 1 1/4"

Material of

Lower back plate Steel

Thickness 15/16"

Greatest pitch of stays 14 1/2"x9"

Working pressure of plate by rules 209 lbs

Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4"x4 3/4"

Material of tube plates Steel

Thickness: Front 1 1/4"

Back 1 5/8"

Mean pitch of stays 9 1/2"

Pitch across wide

water spaces 14"

Working pressures by rules 189 lbs

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at mtre 8 1/2"x17/8"

Length as per rule 31 1/2"

Distance apart 8"

Number and pitch of Stays in each two of 8 1/2" pitch

Working pressure by rules 259 lbs

Steam dome: description of joint to shell none

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type none

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

For

Palmer's Shipbuilding & Iron Co. Ltd.

The foregoing is a correct description,

A. Cameron

Manufacturer.

Duplicate Boilers 960-961/931-932.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

Dates of Survey

During progress of work in shops - - -	} (See other report)

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

These Boilers were built under Special Survey the material and workmanship found good and efficient. For notation see machinery report.

The Boilers were tested under 360 lbs hydraulic pressure (mounting) at the makers works and found satisfactory. It is stated that these boilers have been despatched to Hull to be fitted on board of Saint Dominigue

Survey Fee ... £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

TUE. JUL. 18 1922

FRI. JUL. 13 1923

Assigned

See other Nav. Rpt

FRI DEC. 28 1923

TUES. 9 SEP 1924

016246-402310134

Lloyd's Register