

REPORT ON BOILERS.

No. 40621.

Received at London Office 25 FEB 1930

Date of writing Report

Hull 1930

When handed in at Local Office

Hull 1930

Port of

HULL.

No. in Survey held at

Goole

Date, First Survey

21 Aug 1928

Last Survey

14 Feb 1930

(Number of Visits

12

Tons

Gross

671.30

Net

326.40

1808 on the

S.S. "PORTAVON"

Master

Built at

Goole

By whom built

Goole S.B. & R. Co. Ltd

Yard No.

265

When built

1930

Engines made at

Southampton

By whom made

Bay, Summers & Co. Ltd

Engine No.

366

When made

Boilers made at

Newcastle

By whom made

Palmer S.B. & R. Co.

Boiler No.

1050

When made

Nominal Horse Power

97

Owners

Portfield Steamship Co. Ltd

Port belonging to

Cardiff.

Manager

W. E. Skinde & Co.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record)

Total Heating Surface of Boilers

1780 sq. ft.

Is forced draught fitted

Coal or Oil fired

Working Pressure 180 lbs. sq. in.

No. and Description of Boilers

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

{ per Rule
as fitted

11.4 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

Is oil fuel carried in the double bottom under boilers

Smallest distance between boilers or uptakes and bunkers or woodwork

10"

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

{ end
inter.

Long. seams

Diameter of rivet holes in

{ circ. seams
long. seams

Pitch of rivets

Percentage of strength of circ. intermediate seam

Working pressure of shell by Rules

Thickness of butt straps

{ outer
inner

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Length of plain part

{ top
bottom

Thickness of plates

{ crown
bottom

Description of longitudinal joint

Working pressure of furnace by Rules

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

Tensile strength

Thickness

Pitch of stays

End plates in steam space: Material

Working pressure by Rules

How are stays secured

Tube plates: Material

{ front
back

Tensile strength

Thickness

Lean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

{ front
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

At centre

Length as per Rule

Distance apart

No. and pitch of stays

In each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

{ At body of stay,
or
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

{ At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

Shipping.

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads
No. of threads per inch Area supported by each stay Working pressure by Rules
Tubes: Material External diameter { Plain Stay Thickness { No. of threads per inch
Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening in
shell plate Section of compensating ring No. of rivets and diameter of rivet holes
Outer row rivet pitch at ends Depth of flange if manhole flanged 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

The foregoing is a correct description, Manufacturer:-

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been satisfactorily fitted on board, examined under steam, and its safety valves adjusted under steam as above.

Please see Newcastle Report No. 80092.

Please see engine report
Survey Fee £ : : When applied for, 192
Travelling Expenses (if any) £ : : When received, 192

John Mackintosh
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 28 FEB. 1930
Assigned See other J.E. Rpt