

REPORT ON BOILERS.

No. 86253

Received at London Office

Date of writing Report

When handed in at Local Office

25.9.30 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Seotswood

Date, First Survey

27 Dec/29

Last Survey

22 Sept

1930

Reg. Book.

M.V. "PEIK"

(Number of Visits)

Tons

Gross 6099

Net 3592

Master

Built at

Walker

By whom built

S. & G. Armstrong Whitworth & Co. Ltd.

Yard No. 1057

When built 1930

Engines made at

Seotswood

By whom made

Messrs S. & G. Armstrong Whitworth & Co. Ltd.

Engine No. 90

When made 1930

Boilers made at

Seotswood

By whom made

Messrs S. & G. Armstrong Whitworth & Co. Ltd.

Boiler No. 90

When made 1930

Nominal Horse Power

583.

Owners

J.W. Salvesen

Port belonging to

OSLO.

LOW PRESSURE AIR RECEIVER.

~~MANUFACTURER'S BOILERS MAIN, AUXILIARY, OR DONKEY.~~

Manufacturers of Steel

David Colville & Sons Glasgow.

(Letter for Record

✓)

CAPACITY OF AIR RECEIVER.

42 cu ft

Is forced draught fitted

✓

Coal or Oil fired

✓

No. and Description of Boilers

One Riveted Air Receiver.

Working Pressure

180 lb/sq"

valves fitted by hydraulic pressure to

320 lb/sq"

Date of test 16/6/30

No. of Certificate 4401

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2 Spring loaded.

Area of each set of valves per boiler

{ per Rule

6.280"

Pressure to which they are adjusted

180 lb/sq"

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

RECEIVER

2'-6"

Length

7'-0"

Shell plates: Material

Steel

Tensile strength

28-32 tons

Thickness

5/16"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

S.R. lap.

Pitch of rivets

D.R. lap

Diameter of rivet holes in

{ circ. seams

1/16"

Pitch of rivets

2"

inter.

2.41"

Percentage of strength of circ. end seams

{ plate

65.5%

Percentage of strength of circ. intermediate seam

{ plate

49.9%

Percentage of strength of longitudinal joint

{ plate

71.4%

Working pressure of shell by Rules

184 lb/sq"

No. and Description of Furnaces in each Boiler

No. and Description of Furnaces in each Boiler

Length of plain part

{ top

Thickness of plates

{ crown

Description of longitudinal joint

✓

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

✓

Working pressure of furnace by Rules

✓

Plates in steam space: Material

Steel

Tensile strength

26-30 tons

Thickness

F 3/32" B 1/2"

Pitch of stays

RADIUS 2'-6"

How are stays secured

✓

Working pressure by Rules

250 lb/sq"

Front plates: Material

{ front

Tensile strength

Thickness

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

Centre

Length as per Rule

Distance apart

No. and pitch of stays

Back

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

Pitch of stays

{ At body of stay,

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Pitch of stays

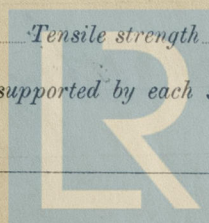
{ At turned off part,

No. of threads per inch

Area supported by each stay

Pitch of stays

{ Over threads



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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
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
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
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
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 by
to free the superheater from water where necessary

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

FOR The foregoing is a correct description,
SIR W. G. ARUPPING WRIGHT & COMPANY (ENGINEERS) LIMITED.

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

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Receiver has been built under Special Survey and in accordance with the Society's Rules & approved plan. The material & workmanship are sound & fit for service. The safety valves were adjusted to the approved working pressure.

Survey Fee ... £ See : When applied for, 19
Travelling Expenses (if any) £ See : When received, 19

For See
Machinery Report

L. Pester.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 30 SEP 1930

Assigned See other Nov. 26
Rpt. 86253



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