

REPORT ON BOILERS.

No. 50554

25 AUG 1930

11 NOV 1930

Received at London Office

Date of writing Report

7-6-30

When handed in at Local Office

10-6-30

Port of

Glasgow

No. in Reg. Book.

Survey held at

Glasgow

Date, First Survey

14-5-30

Last Survey

26-5-30

on the

three air Receivers.

ZWEENA

(Number of Visits

3

Gross

Tons

Net

Made at

Built at Wm. Mechans. Ltd. Scotstoun,

Yard No.

When built

1930

Engines made at

Amsterdam

By whom made

J. V. Kromhout Motoren

Engine No. 58056

When made

Boilers made at

By whom made

Boiler No.

When made

Nominal Horse Power

Owners

Port belonging to

AIR RECEIVERS.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

J. Calville & Sons Ltd.

(Letter for Record)

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

3. Steel cylindrical Air Receivers

Working Pressure

300 lb

Tested by hydraulic pressure to

500 lb

Date of test

26/5/30

No. of Certificate

18732

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

none fitted here

Area of each set of valves per boiler

per Rule

Pressure to which they are adjusted

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

Receivers

Length

10'-6" overall

Shell plates: Material

Steel

Tensile strength

28/32 Ton

Thickness

1/2"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

S.R.

long. seams

D.R.L.

Diameter of rivet holes in

circ. seams

long. seams

Pitch of rivets

7/8"

Pitch of rivets

2.132"

inter.

2.833"

Percentage of strength of circ. end seams

plate

rivets

59

46.3

Percentage of strength of circ. intermediate seam

plate

rivets

339 lb

Percentage of strength of longitudinal joint

plate

rivets

69.2

69.6

Working pressure of shell by Rules

339 lb

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material

Steel

Tensile strength

26/30 Ton

Thickness

5/8" and 11/16"

Pitch of stays

324 lb

How are stays secured

Working pressure by Rules

Tube plates: Material

front

back

Tensile strength

Thickness

Mean 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

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Lloyd's Register

Whoblydation

1141

Working pressure by Rules
No. of threads per inch
Tubes: Material
Pitch of tubes
shell plate
Outer row rivet pitch at ends
Tensile strength
Diameter of rivet holes
Internal diameter
stays
How connected to shell
of rivets in outer row in dome connection to shell
Type of Superheater
Number of elements
Material of headers
the boiler be worked separately
Area of each safety valve
Rules
tubes
to free the superheater from water where necessary
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with
Are the stays drilled at the outer ends
Area supported by each stay
Working pressure by Rules
Section of compensating ring
Depth of flange if manhole flanged
Thickness of shell
Pitch of rivets
Working pressure by Rules
Inner radius of crown
Size of doubling plate under dome
Margin stays: Diameter
Working pressure by Rules
No. of threads per inch
Manhole compensation: Size of opening in
No. of rivets and diameter of rivet holes
Steam Dome: Material
Description of longitudinal joint
Percentage of strength of joint
Thickness of crown
Working pressure by Rules
Diameter of rivet holes and pitch
Manufacturers of
Internal diameter and thickness of tubes
Thickness
Can the superheater be shut off and
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Are the safety valves fitted with easing gear
Working pressure as per
Pressure to which the safety valves are adjusted
Hydraulic test pressure:
and after assembly in place
Are drain cocks or valves fitted
The foregoing is a correct description.

MECHANS LIMITED.

The foregoing is a correct description.
DIRECTOR Manufacturer.

Dates of Survey while building
During progress of work in shops - - -
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.)
These three steel air receivers have been built under special survey to approved plans, in accordance with the Society's Rules. Materials and workmanship are good. They are to the order of M^r N. V. Kromhout Motoren, of Amsterdam, for their order no 3342.

Survey Fee 3 @ £2 1/2 / 6 : 6 : 0
Travelling Expenses (if any) £ : :
When applied for, 10 JUN 1930
When received, 13. 6. 30
H Sutherst
Engineer Surveyor to Lloyd's Register of Shipping.