

Rpt. 5a.

## REPORT ON BOILERS.

No. 49537

Date of writing Report

192

When handed in at Local Office

21/8/29

Port of

Received at London Office

28 AUG 1929

No. of Survey held at

Reg. Book.

Glasgow.

Date, First Survey

18 June

Last Survey

31 July

1929

on the

"AIR RECEIVER"

M.V. "ANGLO SWEDE"

(Number of Visits

5)

Gross

8033

Tons

Net

4498.

Water

Built at

Newcastle

By whom built

Sir W. &amp; G. Armstrong Whitworth &amp; Co. Ltd.

No.

1048

When built

1930.

Engines made at

Stockholm

By whom made

Aktief. Atlas Diesel

Engine No.

50122

When made

1930.

Boilers made at

Glasgow

By whom made

Nelson Boilermakers Ltd.

Boiler No.

5106

When made

1929.

Nominal Horse Power

848.

Owners

Rederiaktief Tanker

Port belonging to

Stockholm.

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Consett Iron Co. and James Dunlop &amp; Co.

(Letter for Record

)

Capacity of Receiver

about 700 ft<sup>3</sup>

Total Heating Surface of Boilers

RECEIVER

and Description of Boilers

One riveted air receiver.

Is forced draught fitted

Coal or Oil fired

✓

Working Pressure

215 lbs.

Tested by hydraulic pressure to

430 lbs.

Date of test

31/7/29

No. of Certificate

18382

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

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 boiler

RECEIVER

6'9" ✓

Length

17'0" ✓

Shell plates: Material

Steel

Tensile strength

28/32 tons

Thickness

3/4" ✓

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

double

Seams

treble ✓

Diameter of rivet holes in

circ. seams

1 1/16"

long. seams

7/16" ✓

Pitch of rivets

3 3/8"

5 3/4" ✓

Percentage of strength of circ. end seams

plate

rivets

66.0

Percentage of strength of circ. intermediate seam

plate

rivets

66.0

Percentage of strength of longitudinal joint

plate

rivets

83.7

Working pressure of shell by Rules

231 lbs.

Thickness of butt straps

outer

3/4" ✓

inner

4" ✓

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

front

bottom

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 1 3/8", B 1 1/4"

Pitch of stays

radius

Are stays secured

✓

Working pressure by Rules

over 215 lbs.

Front plates: Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Access to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Centre

Length as per Rule

Distance apart

No. and pitch of stays

Pitch

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

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

At turned off part,

or

Over threads

No. of threads per inch

Area supported by each stay

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Foundation

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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 } Working pressure by Rules

No. of threads per inch Area supported by each stay Thickness { No. of threads per inch

Tubes: Material External diameter { Plain Stay } Manhole compensation: Size of opening

Pitch of tubes Working pressure by Rules No. of rivets and diameter of rivet holes

shell plate 16" x 12" in end plate. Section of compensating ring 4" Steam Dome: Material

Outer row rivet pitch at ends Depth of flange if manhole flanged

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 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 22 inclusive for boilers been complied with

The foregoing is a correct description, Manufactured by

Dates of Survey { During progress of work in shops - - - } 1929. June 18. 25. July 3. 9. 31. 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 5.

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

This Air Receiver has been built under Special Survey and to the approved plan. The materials and workmanship are good.

It has been dispatched to A. B. Atlas Diesel, Sirkla Stockholm. Reference 7287.

This air receiver has been securely fastened on board this vessel and its safety valve adjusted to the approved working pressure.

L. Beskett.

The attached Plate invoices include the plates used in Air Receiver 2.5 the report on which will be forwarded to Lon. Shortly.

Survey Fee ... £ 4 : 4 : 0 When applied for. 21/8/1929

Travelling Expenses (if any) £ : : When received. 7.9.1929

A. Campbell  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 27 AUG 1929

Assigned TRANSMIT TO LONDON

FRI. 14 MAR 1930

See 2020 E  
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