

pt. 5a.

REPORT ON BOILERS.

No. 49915

Received at London Office

11 DEC 1929

Date of writing Report

19

When handed in at Local Office

7.12.1929

Port of

Glasgow.

opening

No. in Survey held at

Reg. Book.

Glasgow.

Date, First Survey 25.6.29

Last Survey 27. August 1929.

on the

M. V. "ANGLO SWEDE"

(Number of Visits

4

Tons

Gross 8033

Net 4498

Master

Built at

Newcastle

By whom built

S. & G. Armstrong Whitworth & Co. Ltd. Yard No. 1048

When built 1930

Engines made at

Stockholm

By whom made

Aktief. Aktas Diesel

Engine No. 50122 When made 1930.

RECEIVER

Boilers made at

Glasgow

By whom made

Hillson Boilermakers Ltd.

Boiler No. 5107 When made 1929

Indicated Horse Power

848.

Owners

Rederiaktieb Tanker

Port belonging to

Stockholm.

AIR RECEIVER

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel
Capacity of Air Receiver
Total Heating Surface of Boilers

RECEIVER

Name and Description of Boilers

Consort Iron Co. and James Dunlop & Co.
About 700 sq ft
One vertical Air Receiver

Is forced draught fitted

(Letter for Record

Coal or Oil fired

Working Pressure 215 lbs.

Tested by hydraulic pressure to

430 lbs.

Date of test 2/8/29

No. of Certificate 18403

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

Inter. seams

triple

Diameter of rivet holes in

circ. seams

1 1/8"

Pitch of rivets

3 1/8"

Percentage of strength of circ. end seams

plate

66.0

rivets

63.0

Percentage of strength of circ. intermediate seam

plate

66.0

rivets

63.0

Percentage of strength of longitudinal joint

plate

83.7

seams

92.0

Working pressure of shell by Rules

230 lbs.

Thickness of butt straps

outer

3/4"

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

Thickness of plates

across

Description of longitudinal joint

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

Working pressure of furnace by Rules

Plates in steam space: Material

Steel

Tensile strength 26/30 tons

Thickness F 1 1/8" B 1 1/4"

Pitch of stays radius

Are stays secured

Working pressure by Rules

Above 215 lbs.

Front plates: Material

front

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

Boilers to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Centre

Length as per Rule

Distance apart

No. and pitch of stays

Ch

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

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

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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5200-1E11M

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

Are the stays drilled at the outer ends
Area supported by each stay
External diameter
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

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

Manufacturers of
Tubes
Steel castings
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
Hydraulic test pressure:
Are drain cocks or valves fitted

Pressure to which the safety valves are adjusted
and after assembly in place

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

The foregoing is a correct description,
Manufacturer.

Dates of Survey while building
During progress of work in shops - - -
During erection on board vessel - - -

1929 June 25 July 9 Aug 21

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 4

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.)
This Air Receiver has been built under Special Survey and in accordance with the approved plan. The materials and workmanship are good.
It will be dispatched to Messrs. Armstrong Whitworth & Co. Newcastle for their vessel 2^o 1048.

And approved plan
Plate invoice, forwarded with this report 49537 Air Receiver 5106.
This air receiver has been securely fastened on board this vessel and its safety valve adjusted to the approved working pressure.

Survey Fee ... £ 4 : 4 : 0
Travelling Expenses (if any) £ : :
When applied for, 20 Dec. 1929
When received, 20 Dec. 1929

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

Committee's Minute GLASGOW 10 DEC 1929
Assigned TRANSMIT TO LONDON
FRI. 14 MAR 1930
See NWC. 76-85442

Rpt. 4b
Date of writing
No. in Sp
Reg. Book, No.
39279
Built at
Engines made
Donkey Bo
Brake Hor
Nom. Horse
Trade for
OIL ENG
Maximum pres
Span of bearing
Revolutions per
Crank Shaft
Flywheel SL
Tube Shaft
Bronze Line
propeller boss
If the liner do
If two liners
end of the tube
Propeller, dia
Method of re
non-conducting
Cooling Water
Bilge Pumps
Pumps connect
Ballast Pump
Are two independ
Pumps, No. and
In Holds, &c.
Independent
Are all the Bil
led from easily
Are all Sea Co
Are they fixed s
Are they each fill
What pipes pass
What pipes pass
Are all Pipes, C
Is the arrangem
compartment to c
If a wood vessel
Main Air Com
Auxiliary Air
Small Auxilia
Scavenging Ai
Auxiliary Eng
AIR RECI
Can the internal
Is there a drain
High Pressure
Seamless, lap wel
Starting Air R
Seamless, lap wel
Messrs. Whitson &