

REPORT ON AIR RECEIVER BOILERS.

No. 25

Received at London Office

5 NOV 1928

Date of writing Report 29 Oct 1928 When handed in at Local Office

10 Port of LENINGRAD

No. in Survey held at LENINGRAD
Reg. Book

Date, First Survey 11/11/27

Last Survey 19th APRIL 1928

3597 on the M/S "IAN RUDZUTAK"

(Number of Visits 6)

Tons Gross 3614.8
Net 2087.12

built at LENINGRAD

By whom built SEVERNEY SHIPBUILDING YARD Yard No. 300 When built 1928

Engines made at LENINGRAD

By whom made RUSSIAN DIESEL WORKS Engine No. 300 When made 1928

WASTE HEAT Boilers made at LENINGRAD

By whom made SEVERNEY SHIPBUILDING YARD Boiler No. 300 When made 1928

owners SOYTORCFLOT

Port belonging to LENINGRAD.

RECEIVER FOR WASTE HEAT BOILER FUEL BURNING
VERTICAL DONKEY BOILER.

Made at LENINGRAD By whom made SEVERNEY SHIPBUILDING YARD RECEIVER Boiler No. 300 When made 1928 Where fixed WASTE HEAT BOILER PLATFORM.

Manufacturers of Steel MARIODPOL STATE STEEL WORKS

total Heating Surface of Boiler

Is forced draught fitted

Coal or Oil fired

and Description of Boilers RECEIVER ONE RIVETED STEEL AIR RECEIVER

Working pressure 10 kg/cm²

tested by hydraulic pressure to 20 kg/cm²

Date of test 19/4/28

No. of Certificate 1012

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler RECEIVER ONE SPRING LOADED

Area of each set of valves per boiler per rule APPROVED 24/7/27 as fitted

Pressure to which they are adjusted NOT ADJUSTED Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

woodwork

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler RECEIVER 595 7/8 Height 1692 7/8

Shell plates: Material STEEL

Tensile strength 44/51 kg/cm²

Thickness 10 7/8

Are the shell plates welded or flanged No

Description of riveting: circ. seams end SINGLE inter.

long. seams D.R. LAP.

No. of rivet holes in circ. seams 20 7/8 long. seams 16.5 7/8

Pitch of rivets 49.5 7/8 50.5 7/8

Percentage of strength of circ. seams plate 59.5% rivets 55.7%

of Longitudinal joint plate 67.3% rivets 69.5% combined.

Working pressure of shell by rules 20.3 kg/cm²

Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat PARTIAL SPHERICAL

Material STEEL

Tensile strength 41/47 kg/cm²

Thickness 10 7/8

Radius 585 7/8

Working pressure by rules 18 kg/cm²

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter top bottom

Length as per rule

Working pressure by rules

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

Thickness of Ogee Ring

Diameter as per rule D d

Working pressure by rule

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material front back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Comprising shell, Dia. as per rule front back

Pitch in outer vertical rows

Dia. of tube holes FRONT stay plain

BACK stay plain

Each alternate tube in outer vertical rows a stay tube

Working pressure by rules front back

Stays to combustion chamber tops: Material

Tensile strength

Length and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule

W1229-0161

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Crown 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 _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
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 _____
 of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____
Uptake: External diameter _____ Thickness of uptake plate _____
Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____



The foregoing is a correct description,

Shishatny

Dates of Survey { During progress of work in shops - - 1927: 1/11, 3/11, 20/12, 29/12, 1928: 5/1, 22/3, 19/4. Is the approved plan of boiler forwarded herewith 26/7/28 (If not state date of approval.)
 while building { During erection on board vessel - - Total No. of visits 6

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

This air receiver has been constructed under special survey in accordance with the rules and approved plan. The materials and workmanship are sound and good, the receiver has now been fitted on board the vessel in an efficient manner.

The safety valves have not been adjusted as the builders are proposing to increase the working pressure to 13.5 kg/cm² and approval for same has been sent London for on the 20/10/28.

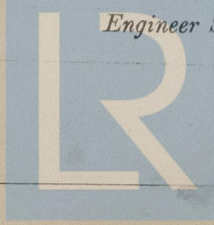
Survey Fee ... £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

A. M. Crinick

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 13 NOV 1928
 Assigned SA Minute on TUE. 4 DEC 1928

Leningrad Rpt. N. 25 attached



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