

REPORT ON ^{AIR RECEIVER.} BOILERS.

No. 22

30 JUL 1928

Received at London Office

Date of writing Report 26th JULY 1928 When handed in at Local Office 19 Port of Leningrad

No. in Survey held at Leningrad Date, First Survey 1st Nov 1927 Last Survey 12th JULY 1928
Reg. Book on the M/S "ALEXEY RYKOFF" (Number of Visits 9) Tons Gross 3615 Net 2097

Built at Leningrad By whom built SEVERNEY SHIPBUILDING YARD Yard No. 299 When built 1928
Engines made at Leningrad By whom made RUSSIAN DIESEL WORKS Engine No. 299 When made 1928
Boiler made at Leningrad By whom made SEVERNEY SHIPBUILDING YARDS Boiler No. 299 When made 1928
Owners SOYTORGFLOT Port belonging to Leningrad

AIR RECEIVER FOR WASTE HEAT BOILER FUEL BURNING
VERTICAL DONKEY BOILER.

Made at Leningrad By whom made SEVERNEY SHIPBUILDING YARD RECEIVER Boiler No. 299. When made 1928 Where fixed WASTE HEAT BOILER PLATFORM.
Manufacturers of Steel MARIOPOL STATE STEEL WORKS.

Total Heating Surface of Boiler Is forced draught fitted Coal or Oil fired

No. 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 1011

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 as fitted APPROVED 26/7/27 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

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 mm Height 1692 mm

Shell plates: Material STEEL Tensile strength 44/51 kg/cm² Thickness 10 mm

Are the shell plates welded or flanged No Description of riveting: circ. seams end SINGLE inter. long. seams D.R. LAP.

Dia. of rivet holes in circ. seams 20 mm Pitch of rivets 49.5 mm 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

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

Tensile strength 41/47 kg/cm² Thickness 10 mm Radius 585 mm 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

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 rule

002816 - 002824 - 0016

© 2021

Lloyd's Register
Foundation

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 diameter 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,

Shishatsky

Manufacturer.

Dates of Survey while building { During progress of work in shops - - { 4/11/27, 3/11/27, 20/12/27, 29/12/27, 5/1/28.
 { During erection on board vessel - - { 12/7/28, 1/3, 22/3, 19/4.

Is the approved plan of boiler forwarded herewith (If not state date of approval.) _____

Total No. of visits 9

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 plans. The materials and workmanship are sound and good, the receiver has now been fitted on board the vessel in a satisfactory manner. The safety valves have not been adjusted on account of the reducing value in the pipe line between the starting air receivers and this receiver not being in a satisfactory working condition and permitting a higher pressure of air being conveyed to the low pressure receiver than which the safety valves can deal with. The builders state that this will be rectified on the vessel's return to Leningrad.

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

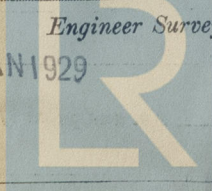
Committee's Minute
 Assigned

WED. 8 AUG 1928
See 1st apt. attached

FRI. 4 JAN 1929

H. M. Crockett

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation