

REPORT ON ^{AIR RECEIVER} BOILERS.

No. 39.

Received at London Office 31 OCT 1929

Date of writing Report 26th OCT 1929 When handed in at Local Office 19 Port of Leningrad

No. in Survey held at Leningrad Date, First Survey 27/11/29 Last Survey 4th OCT 1929
 Reg. Book 34553 on the M/S "SMOLNY" (Number of Visits 5) Gross 3767 Tons Net 2164

Built at Leningrad By whom built SEVERNEY SHIPBUILDING YARD Yard No. 306 When built 1929
 Engines made at Leningrad By whom made RUSSIAN DIESEL WORKS Engine No. 306 When made 1929
 STEAM HEAT Boilers made at Leningrad By whom made SEVERNEY SHIPBUILDING YARD Boiler No. 306 When made 1929
 Owners SOVTORG FLOT Port belonging to Leningrad

VERTICAL DONKEY BOILER.

Made at Leningrad By whom made SEVERNEY SHIPBUILDING YARD RECEIVER Boiler No. 306 When made 1929 Where fixed E.R. THREE DECK

Manufacturers of Steel MARIODPOL STATE STEEL WORKS

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

No. and Description of Boilers ONE RIVETED STEEL AIR RECEIVER Working pressure 13.5 kg/cm²

Tested by hydraulic pressure to 24 kg/cm² Date of test 19-3-29 No. of Certificate 1020

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler ONE SPRING LOADED

Area of each set of valves per boiler per rule as fitted 20/7/29 Pressure to which they are adjusted 13.5 kg/cm² Are they fitted with easing gear No

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

or 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 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 18.8 Thickness of butt straps outer inner

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

Tensile strength 4/47 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

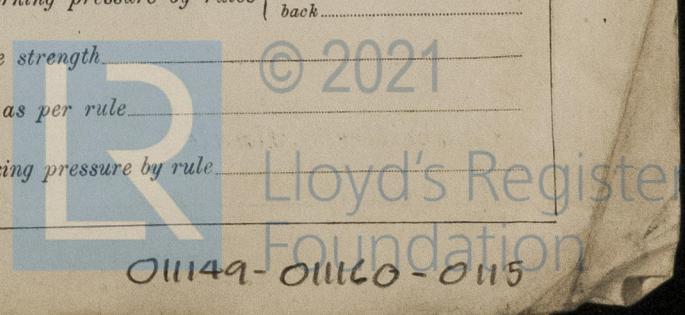
If comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT stay plain BACK stay plain

Is 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



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 _____ Thickness { _____
 stay _____
 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 _____
 at 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,

Manufacturer.

Dates of Survey { During progress of work in shops - - } 27/4/28, 19/2, 14/3, 19/3
 while building { During erection on board vessel - - } 4/10/29

Is the approved plan of ^{RECEIVED} boiler forwarded herewith 13/10/28
 (If not state date of approval.)
 Total No. of visits 5

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 an efficient manner and safety valve adjusted under air pressure of 13.5 kg/cm²

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

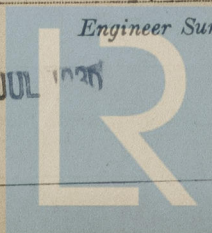
Attn: Grinick for A. J. Nelya & self
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE 5 NOV 1929
 See Report attached

FRI. 18 JUL 1928



Lloyd's Register
 Foundation