

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) Tons 3767
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

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 MARIOPOL 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 RECEIVER ONE SPRING LOADED

Area of each set of valves per boiler per rule APPROVED 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 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 40.5 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

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

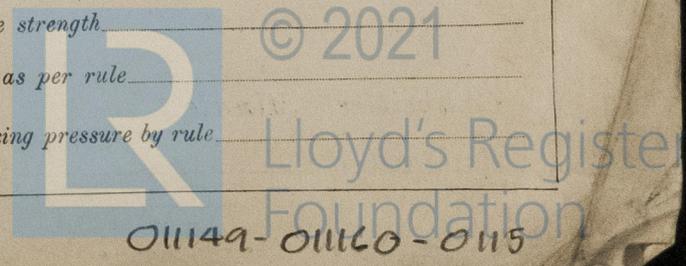
If comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT stay plain BACK stay plain

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



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