

REPORT ON BOILERS.

No. 22

Received at London Office

30 JUL 1928

Date of writing Report 26th July 1928 When handed in at Local Office

10 Port of Leningrad

No. in
Reg. Book

Survey held at Leningrad

Date, First Survey 9-12-26

Last Survey 19th July 1928

(Number of Vessels 28)

Gross 3615

Net 2097

on the M/S "ALEXEY RYKOFF"

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

Boilers made at Leningrad

By whom made SEVERNEY SHIPBUILDING YARD

Boiler No. 299

When made 1928

Owners SOYTORGFLOT

Port belonging to Leningrad.

WASTE HEAT
VERTICAL DONKEY BOILER.

Made at Leningrad By whom made SEVERNEY SHIPBUILDING YARD Boiler No. 299

When made 1928

Where fixed IN ENGINE ROOM
CASING ABOVE ENGINE

Manufacturers of Steel LDORSKY STEEL WORKS NEAR Leningrad

Total Heating Surface of Boiler 52.5 SQ. MET.

Is forced draught fitted No

Coal or Oil fired EX GASES FROM DIESEL
ENGINE & ALSO BY OIL
IF REQUIRED

No. and Description of Boilers ONE VERTICAL TUBULAR WASTE HEAT BOILER

Working pressure 3 kg/cm²Tested by hydraulic pressure to 6 kg/cm²Date of test 4th Oct. 1927

No. of Certificate 1004

Area of Firegrate in each Boiler

No. and Description of safety valves TWO SPRING LOADED

Area of each set of valves per boiler { per rule 9607.5 cm²
as fitted 10050.8 cm²Pressure to which they are adjusted 3 kg/cm²

Are they fitted with easing gear YES

State whether steam from main boilers can enter the donkey boiler NONE

Smallest distance between boiler or uptake and casing bulkheads

on woodwork 6"

Is oil fuel carried in the double bottom under boiler No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated YES 18" ASBESTOS Largest internal dia. of boiler 1520 mm Height 2538 mm
+ 2 LAYERS OF BRICKS

Shell plates: Material STEEL

Tensile strength

Thickness 10 mm

Are the shell plates welded or flanged No

Description of riveting: circ. seams

end SINGLE
inter SINGLE

long. seams D.R. LAP.

Dia. of rivet holes in { circ. seams 19 mm
long. seams 16 mmPitch of rivets { 49.3 mm
54.6 mmPercentage of strength of circ. seams { plate 61.5%
rivets 47%of Longitudinal joint { plate 70.7%
rivets 60%
combinedWorking pressure of shell by rules 7.17 kg/cm²Thickness of butt straps { outer
inner

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

Material STEEL

Tensile strength

Thickness 19 mm

Radius

Working pressure by rules 11.8 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
plainBACK { 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

002816 - 002824 - 0015

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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 STEEL External diameter { plain 63.5 mm Thickness { 3 mm stay 63.5 mm 5 mm UNDER THREAD
No. of threads per inch 19 LIND. LETTER Pitch of tubes 90 x 90 mm Working pressure by rules 9 kg/cm²
Manhole Compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring 12 x 54 mm No. of rivets and diameter ✓
of rivet holes 20 @ 16 mm Outer ~~near~~ rivet pitch at ends 62 mm 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 YES

The foregoing is a correct description,



Manufacturer ✓ Total ✓

Dates of Survey { During progress of work in shops - 9/2/26, 14/2/26, 19/2/26, 6/1/27, 25/1/27, 4/2/27, 18/2/27 Is the approved plan of boiler forwarded herewith 14/4/26
while building { During erection on board vessel - 3/3, 28/3, 4/4, 19/4, 3/5, 10/5, 12/5, 19/5, 24/5, 31/5, 20/6 (If not state date of approval.) COPY OF PLAN AT LONDON ON
Total No. of visits 28
1/11/27, 19/7/28

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

This boiler has been constructed under special survey in accordance with the Rules and approved plans. The materials and workmanship are sound and good. The boiler has been fitted on board the vessel in a satisfactory manner, examined under steam and safety valves adjusted to 3 kg/cm². It is in my opinion eligible to be included with the machinery for record of LMC 7-28.

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

Committee's Minute

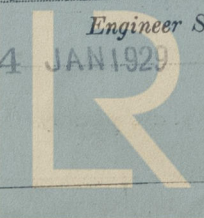
Assigned

WED. 8 AUG 1928

FRI. 4 JAN 1929

A. M. Crisick

Engineer Surveyor to Lloyd's Register of Shipping.



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