

REPORT ON WATER TUBE BOILERS.

No. 56

Received at London Office

20 JAN 1930

of writing Report 8TH JAN 1930 When handed in at Local Office

19

Port of LENINGRAD

No. in Survey held at LENINGRAD

Date, First Survey 13/5/29

Last Survey 6TH JAN. 1930

751 on the M/S "IAN RUDZUTAK"

Number of Visits 5

Gross 3870

Net 2255

When built 1928-10

Built at LENINGRAD

By whom built SEVERNEY S. B. YARD

Engines made at LENINGRAD

By whom made RUSSIAN DIESEL WORKS

When made 1928

Machinery made at LENINGRAD

By whom made SEVERNEY S. B. YARD

When made 1928

Registered Horse Power 692

Owners SOVTORG FLOT

Port belonging to LENINGRAD

WATER TUBE BOILERS

MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel MARIDOPOL & LORSKY STEEL WORKS

Letter for Record

Date of Approval of plan 9/4/29

Number and Description or Type

Boilers ONE YARROW TYPE BOILER

Working Pressure 5 kg/cm²

Tested by Hydraulic Pressure to 10 kg/cm²

Date of Test 26/12/29

of Certificate 1039

Can each boiler be worked separately

Total Heating Surface of Boilers 43.2 Sq. METRES.

forced draught fitted YES

Area of fire grate (coal) in each Boiler

Total grate area of boilers in vessel including

in and Auxiliary MOTOR VESSEL

No. and type of burners (oil) in each boiler WITH STEAM & AIR CONNECTION

h boiler TWO SPRING LOADED

Area of each valve 2220 Sq. cm

Pressure to which they are adjusted NOT ADJUSTED

they fitted with easing gear YES

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler NONE

allest distance between boilers AND UNDER SIDE OF DECK

13 1/2

Height of Boiler 2000 mm

Width and Length 4370 x 2650 mm

am Drums:—Number in each boiler ONE

Inside diameter 600 mm

Material of plates STEEL

Thickness TOP 10 mm

ange of Tensile Strength 44/50 kg/mm²

Are drum shell plates welded or flanged NO

Description of riveting:—

seams SINGLE

long. seams SINGLE RIVET

Diameter of rivet holes in long. seams 16.5 mm

Pitch of Rivets 46.5 mm

p of plate or width of butt straps 35.100 mm

Thickness of straps 10 mm

Percentage strength of long. joint:—Plate 64.7%

Rivet 71%

diameter of tube holes in drum 36 mm

Pitch of tube holes 62 mm

Percentage strength of shell in way of tubes 42%

Drum has a flat side state method of staying CIRCULAR

Depth and thickness of girders at centre

fitted

Distance apart

Number and pitch of stays in each

Working pressure

rules

Steam Drum Heads or Ends:—Material STEEL

Thickness 12 mm

Radius or how stayed 600 mm

e of Manhole or Handhole 400 x 300 mm

Water Drums:—Number in each boiler TWO

Inside Diameter 450 mm

aterial of plates STEEL

Thickness 10 mm

Range of tensile strength 44/50 kg/mm²

Are drum shell plates welded

flanged NO

Description of riveting:—Cir. seams SINGLE

long. seams SINGLE LAP

Diameter of Rivet Holes in

g. seams 19.5 mm

Pitch of rivets 50.7 mm

Lap of plates or width of butt straps 60 mm

Thickness of straps

percentage strength of long. joint:—Plate 61.5%

Rivet 48%

Diameter of tube holes in drum 36 mm

Pitch of tube holes 62 mm

percentage strength of drum shell in way of tubes 42%

Water Drum Heads or Ends:—Material STEEL

Thickness 10 mm

dius or how stayed 600 mm RADIUS

Size of manhole or handhole 400 x 300 mm

Headers or Sections:—Number

aterial

Thickness

Tested by Hydraulic Pressure to

Material of Stays

at smallest part

Area supported by each stay

Working Pressure by Rules

Tubes:—Diameter 30 mm

ickness 3 mm

Number 267 TOTAL

Steam Dome or Collector:—Description of Joint to Shell NONE

percentage strength of Joint

Diameter

Thickness of shell plates

Material

scription of longitudinal joint

Diameter of Rivet Holes

Pitch of Rivets

Working Pressure of shell

Rules

Crown or End Plates:—Material

Thickness

How stayed

PERHEATER.

Type NONE

Date of Approval of Plan

Tested by Hydraulic Pressure to

te of Test

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

meter of Safety Valve

Pressure to which each is adjusted

Is easing gear fitted

a drain cock or valve fitted at lowest point of superheater

Number, diameter and thickness of tubes

are Gear.

Tubes

Gaskets or joints:—Manhole

Handhole plates

The foregoing is a correct description;

Manufacturer.

During progress of 13/5/29, 16/5/29, 4/6/29, 18/6/29, 9/7/29

Is the approved plan of boiler forwarded herewith 9/4/29.

During erection on 8/4/29, 26/2/29, 6/1/30

Total No. of visits 8.

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 good. The boiler has been fitted on board the vessel in a satisfactory

manner and examined under steam. Safety valves have not been adjusted under steam as the

water supply has not been controlled automatically. This it is stated will be done when

vessel is at London.

Survey Fee ... R. 80-

When applied for, 13 JAN. 1930

Travelling Expenses (if any) £

When received, 19

A. M. Crinick.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 4 FEB. 1930

TUE. 25 FEB. 1930

igned

See Lgd. Rpt. 54

FRI. 18 JUL 1930

FRI. 28 NOV 1930

W1229-0149

Lloyd's Register Foundation