

REPORT ON MACHINERY.

No. 39276

Port of Rotterdam

FRI. 18 MAR 1904

Received at London Office 19

No. in Survey held at Capelle de Zuid Date, first Survey Last Survey 14th March 1904
g. Book. on the Donker Paaler Jos. S. V. "Tonga" (Number of Visits One)
Boiler Tons { Gross 942.48.
of the Built at Capelle de Zuid By whom built St. Ruyk- Net 550.83-
ister J. Spinnangs. When built 03-04-
gines made at South Shields By whom made George Gray Esq. when made ?
ript Silers made at Do. By whom made Do. when made ?
gistered Horse Power Owners J. V. Meier Port belonging to Christiania
m. Horse Power as per Section 28 Is Refrigerating Machinery fitted Is Electric Light fitted

GINES, &c.—Description of Engines Will be fitted at South Shields. No. of Cylinders
No. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft
The screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
The propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
Between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
Is are fitted, is the shaft lapped or protected between the liners Length of stern bush
Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under
Pitch of screw No. of blades State whether moveable Total surface
Dia. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
Dia. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room To J. V. Meier at South Shields. In Holds, &c. Two wing Suctions each Hold 2 1/2"
Using Suctions in Ballast Tanks 2 1/2" and centre 3 1/2" Peaks 2 1/2" and 2 1/4" See plan appended
f bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses In holds. Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible No sluices
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line
Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate
That pipes are carried through the bunkers How are they protected
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges
When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight
Is it fitted with a watertight door worked from

ILERS, &c.— (Letter for record) Total Heating Surface of Boilers Is forced draft fitted
No. and Description of Boilers Main Boiler will be fitted Working Pressure Tested by hydraulic pressure to
Date of test Can each boiler be worked separately in South Shields. Area of fire grate in each boiler No. and Description of safety valves to
Each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Thickness Range of tensile strength Are they welded or flanged Descrip. of riveting: cir. seams long. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
No. and Description of Furnaces in each boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
Thickness of girder at centre Length as per rule Distance apart Number and pitch of Stays in each
Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
Stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

DONKEY BOILER—

No.

Description

Amsterdam Report N^o 2815

Made at

By whom made

When made

Where fixed In stokehold

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves Spring loaded

No. of safety valves

Area of each

4.9

Pressure to which they are adjusted 100 lb.

If fitted with easing gear

If steam from main boiler

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Descrip.

joint

Thickness of furnace crown plates

Stayed by

Working pressure of shell by rules

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:—

Mark on boiler

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of - -

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

General Remarks (State quality of workmanship, opinions as to class, &c.)

Please see Secretary's letter 1912-04-

The pipe arrangement for Lolds. and Ballast Tanks has been carried out in accordance with the approved plan and fastened to Engine and Boiler space bulkhead. All pipe connections for Engine and Boiler space requires to be completed at South Shields where the machinery will be fitted on board.

J. J. Leuvenburg.

The donkey boiler has been examined under steam, whilst she was placed in the stokehold of the "Ed. Inga" and found in good condition. The safety valves have been adjusted to the above stated pressure. Steam cock for gauge remains to be fitted in the boiler, and easing gear for safety valves remains to be connected. A steam pump (Duplex patent) has been fitted for boiler feed. Entering of steam from the main boiler into the Donkey boiler will be prevented by reducing valve.

Amsterdam Report and plan of Donkey boiler, (see Secretary's letter 15th March 1904. E) has been returned herewith.

The amount of Entry Fee. £ : : When applied for,

Special £ 2. : 2. : : 19

Donkey Boiler Fee £ : : : When received,

Travelling Expenses (if any) £ : 10. : 23/3/1904

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI. 8 APR 1904

Assigned



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