

REPORT ON MACHINERY

No. 10871

WED. 16 JUL. 1919

Date of writing Report 5 July 1919 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Papendrecht

Date, First Survey 6 July 1917 Last Survey 28 June 1919

Reg. Book.

on the Heel Screw Steamer DUIVENDRECHT

(Number of Visits 12)

Master B Kuiper

Built at

Hedrecht

By whom built

Waf Baanhoeck

Engines made at

Papendrecht

By whom made

Machfab. Scheepman

J. A. La Schuit when made

Gross 1303

Net 1210

When built 1919

Boilers made at

Rushington

By whom made

Hon Mr de Schelde

when made 1918

Registered Horse Power

Owners

Port belonging to Rotterdam

Nom. Horse Power as per Section 28 125

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Vertical triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 11 1/4 x 29 x 47

Length of Stroke 36

Revs. per minute 95

Dia. of Screw shaft

as fitted 10 1/8

Material of screw shaft

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

No

Is the after end of the liner made water tight

in the propeller boss

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 44

Dia. of Tunnel shaft

as fitted 9 1/8

Dia. of Crank shaft journals

as fitted 9 1/8

Dia. of Crank pin 9 1/8

Size of Crank webs 6 1/2 x 4 1/2

Dia. of thrust shaft under

collars

Dia. of screw 12 1/8

Pitch of Screw 12 1/8

No. of Blades 4

State whether moveable No

Total surface 52 sq. ft.

No. of Feed pumps 2

Diameter of ditto 4 1/2

Stroke 18

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 5 1/4

Stroke 18

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 1

Sizes of Pumps 8 x 8 x 10

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4 x 3

In tunnel well one x 1 1/2

In Holds, &c. In forehold 2 x 1 1/2

In afterhold

No. of Bilge Injections 1

sizes 5

Connected to condenser to circulating pump

Is a separate Donkey Suction fitted in Engine room & size Yes 3

Are all the bilge suction pipes fitted with roses Yes

Are the roses in Engine room always accessible Yes

Are the sluices on Engine room bulkheads always accessible Yes

Are all connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes

Are the Discharge Pipes above or below the deep water line Yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers None

How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes

Is it fitted with a watertight door Yes

OILERS, &c.—(Letter for record)

See separate report on Boilers

Total Heating Surface of Boilers 3130

Is Forced Draft fitted NO

Working Pressure 180

Tested by hydraulic pressure to

Can each boiler be worked separately

Area of fire grate in each boiler

ach boiler

Area of each valve

smallest distance between boilers or uptakes and bunkers or woodwork

Pressure to which they are adjusted

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Length

Material of shell plates

Descrip. of riveting: cir. seams

Lap of plates or width of butt straps

Size of manhole in shell

No. and Description of Furnaces in each boiler

Material

Outside diameter

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Working pressure by rules

End plates in steam space:

Material of stays

Material of Front plates at bottom

Working pressure of plate by rules

Mean pitch of stays

Girders to Chamber tops: Material

Depth and

Number and pitch of stays in each

% of strength of joint

Diam. of rivet holes

Description of longitudinal joint

Crown plates

Thickness

How stayed

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Type

Date of Test

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