

Rpt. 4.

REPORT ON MACHINERY

No. 10594

Received at London Office

WED. 21 AUG. 1913

Date of writing Report 22 July 1913 When handed in at Local Office 19

Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey 24 - 1913

Last Survey 24 - 1913

1913

Reg. Book.

(Number of Visits 45)

on the Dutch Steel Screw Steamer Egenhulp VI

Master

Built at Rotterdam

By whom built

Messrs. Wiltens Ingenieurs, Rotterdam

Tons Gross 512.37 Net 281

When built 1913-1918

Engines made at Rotterdam

By whom made

D.O.

when made 1913-1918

Boilers made at Sunderland

By whom made

G. Clark & Co. Sunderland

when made 1899-9 up to 1913

Registered Horse Power

Owners

Messrs. Wiltens Ingenieurs, Rotterdam

Port belonging to Rotterdam

Nom. Horse Power as per Section 28 22.81

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 12 1/4 x 20 x 33

Length of Stroke 25

Revs. per minute 105

Dia. of Screw shaft

as per rule 18 1/2

Material of screw shaft Steel

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

Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned the length of 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 Yes

If two

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

Length of stern bush 29 1/4

Dia. of Tunnel shaft as per rule 6 1/2

Dia. of Crank shaft journals as per rule 6 1/2

as fitted 6 1/2

Dia. of Crank pin 4 1/8

Size of Crank webs 4 1/2 x 3 1/2

Dia. of thrust shaft under

collars 4 1/4

Dia. of screw 9 1/4

Pitch of Screw 9 1/8

No. of Blades 4

State whether moveable No

Total surface 36 sq ft

No. of Feed pumps 2

Diameter of ditto 2 1/4

Stroke 13 1/2

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 2 1/4

Stroke 13 1/2

Can one be overhauled while the other is at work Yes

No. of Donkey Engines One

Sizes of Pumps 6 x 4 1/2 x 6

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

In Engine Room Four of 2

In Holds, &c. Two of 2

No. of Bilge Injections 1

sizes 3 1/2

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size Yes 2

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 2

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 Above

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 2 bends from bilge suction pipes How are they protected Wood covering

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 No tunnel

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel

In Boiler "Britannia" (Classed engine)

Total Heating Surface of Boilers 1610 sq ft

Is Forced Draft fitted No

No. and Description of Boilers One horizontal marine boiler

15.B.

Working Pressure 160 lb

Tested by hydraulic pressure to 240 lb

Date of test 14/2

No. of Certificate 4

Can each boiler be worked separately Only one

Area of fire grate in each boiler 49.55 sq ft

No. and Description of Safety Valves to

each boiler Two spring loaded

Area of each valve 11 1/4

Pressure to which they are adjusted 160 lb

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 18

Mean dia. of boilers 13 1/4

Length 10'0"

Material of shell plates Steel

Thickness 3 1/2 x 1 1/4 Range of tensile strength 28-32 tons per sq in

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams dbl. lap.

long. seams 11 1/2 x 1 1/4

Diameter of rivet holes in long. seams 1 1/16

Pitch of rivets 4 1/16

Lap of plates or width of butt straps 16 1/2

Per centages of strength of longitudinal joint

rivets: 85.5 %

Working pressure of shell by rules 164 lb

Size of manhole in shell 14 x 13

Size of compensating ring 1 1/4 x 8 3/4

No. and Description of Furnaces in each boiler 3 plain furnaces

Material Steel Outside diameter 3-5

Length of plain part top 6 1/2 bottom 4 1/2

Thickness of plates

crown 2 1/2 bottom 1 1/2 + 1/4

Description of longitudinal joint Welded

No. of strengthening rings 4

Working pressure of furnace by the rules 164 lb

Combustion chamber plates: Material Steel Thickness: Sides 1 1/2 Back 1 1/2

Top 1 1/2 Bottom 1 1/2

Pitch of stays to ditto: Sides 1 1/4 x 9 1/2

Back 9 1/4 x 9 1/2

Top 9 1/4 x 9 1/2

If stays are fitted with nuts or riveted heads riveted

Working pressure by rules 164 lb

Material of stays Steel

Area at smallest part 1.05 sq ft

Area supported by each stay 9.5 sq ft

Working pressure by rules 164 lb End plates in steam space:

Material Steel Thickness 1 1/2

Pitch of stays 10 1/4 x 10 1/4

How are stays secured riveted

Working pressure by rules 164 lb

Material of stays Steel

Area at smallest part 6.0 sq ft

Area supported by each stay 3.4 sq ft

Working pressure by rules 164 lb

Material of Front plates at bottom Steel

Thickness 1 1/2

Material of Lower back plate Steel

Thickness 1 1/2

Greatest pitch of stays 15 1/4

Working pressure of plate by rules 164 lb

Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/2

Material of tube plates Steel

Thickness: Front 1 1/4 + 1/4

Back 1 1/4

Mean pitch of stays 8 1/2

Pitch across wide water spaces 14 1/4

Working pressures by rules 164 lb

Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 4 1/2 x 1 1/2

Length as per rule 2 1/4

Distance apart 10

Number and pitch of stays in each 2-9 1/2

Working pressure by rules 164 lb

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

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If so, is a report now forwarded? 4

The foregoing is a correct description,
WILTON'S ENGINEERING & SLIPWAY CO.

J. M. L. M.

Manufacturer.

Is the approved plan of main boiler forwarded herewith
retained in London office.
" " " donkey " " "

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

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 7.18
+ NB MADE 9'99 & FITTED 7'18
(Annual Survey on Boiler) 1/18

P. W. Barrett
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 23 AUG. 1973

+ Lm. 7.18

MACHINERY CERTIFICATE
..... WRITTEN.

+ H.B. made 99 reprints 7. 18

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