

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office. FRI 23 MAY 1924

Date of writing Report 16-5-1924 When handed in at Local Office

Port of Rotterdam

Survey held at Rotterdam

Date, First Survey 9-4-24 Last Survey 1-5-1924

Book.

on the Hest Twin Screw Steamer, "MARTINA"

(Number of Visits 8)

Tons { Gross  
Net

Built at Rotterdam By whom built Rott Drydock Co Yard No. 93 When built 1924

Owners Rijnsoevere Scheepw. My Port belonging to Willemstad

Electric Light Installation fitted by H.V.A. Pilsbaten &amp; Hoonen Contract No. When fitted Apr 1924.

## System of Distribution

two wire system

## Pressure of supply for Lighting

110 volts

volts, Heating

volts, Power

110

volts.

## Direct or Alternating Current, Lighting

direct current

Power

direct current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

yes

Generators, do they comply with the requirements regarding overload

yes

, are they compound wound

yes

are they over compounded 5 per cent.

yes

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

, is an adjustable regulating resistance fitted in

series with each shunt field

Are all terminals accessible and clearly marked

yes

, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited

yes

Are the lubricating arrangements of the generators as per Rule

yes

## Position of Generators

in engine room near main switchboard

is the ventilation in way of the generators satisfactory

yes

, are they clear of all inflammable material

yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and

, are the generators protected from mechanical injury and damage from water, steam or oil

yes

are their axis of rotation fore and aft

yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed

yes

are the prime movers and

their respective generators in metallic contact

yes

## Main Switch Boards, where placed

in engine room near dynamo

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes

yes

are they protected from mechanical injury and damage from water, steam or oil

yes

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

and

are they constructed wholly of durable, incombustible non-absorbent materials

yes

, is all insulation of high dielectric strength and of

permanently high insulation resistance

yes

, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework

, and is the

frame effectively earthed

Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

, accessibility of all parts

yes

, absence of fuses on back of board

yes

, proportion of omnibus

bars

yes

, individual fuses to voltmeter, pilot or earth lamp

yes

, connections of switches

yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

for the generator a double pole quick break linked knife switch and double pole fuse

for each outgoing circuit a double pole quick break linked knife switch and double pole fuse

Instruments on main switchboard

1 ammeters

1 voltmeters

synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

two earthlamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

yes

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

yes







All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

N. V. Van Rietschoten & Houwens'

Technisch-Industriele Mij.

Electrical Engineers.

Date 14.5.24

#### COMPASSES.

Distance between electric generators or motors and standard compass 80 feet

Distance between electric generators or motors and steering compass 16 feet

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 10 feet from standard compass 70 feet from steering compass.

A cable carrying 0.5 Amperes 8 feet from standard compass 85 feet from steering compass.

A cable carrying 0.3 Amperes 0.1 feet from standard compass 9 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power. Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted. Yes

The maximum deviation due to electric currents was found to be nil degrees on every course in the case of the standard compass, and nil degrees on every course in the case of the steering compass.

ROTTERDAMSCHIE DROOGBOEK MAATSCHAPPIJ

Builder's Signature.

Date

P. L. O. O. O.

Is this installation a duplicate of a previous case If so, state name of vessel

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

This installation has been fitted in accordance with the Rules and found in a good working condition when tried and merit in my opinion the Committee's approval

It is submitted that  
this vessel is eligible for  
THE RECORD. The light

30/6/24

Total Capacity of Generators 8 Kilowatts

The amount of Fee ...

£ 96.00

When applied for,  
12/5 1924

Travelling Expenses (if any) £

When received,  
19

J. J. Ochoa

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt



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Foundation