

Rpt. 13

No. 117002

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 23 NOV 1929

Date of writing Report 20 November 1929 When handed in at Local Office

Port of **AMSTERDAM**No. in Survey held at **AMSTERDAM**

Date, First Survey 19/11

Last Survey 16 November 1929

Reg. Book.

(Number of Visits 4)

41136 on the Steel Twin Screw Motor Vessel "**LION**"

Tons { Gross

Net

Built at **Krimpen a/d. Yssel**By whom built **C.V.d.Giessen & Zonen**

Scheepswerf

No. 596

When built 1929

Owners **A/S. Ambra**Port belonging to **Oslo**Electric Light Installation fitted by **N.V. Hoos & Co's Electriciteits My.** Contract No. -

When fitted 1929

System of Distribution

Double wire system

Tanked

Pressure of supply for Lighting

110

volts, Heating

L

volts, Power

110

volts.

Direct or Alternating Current, Lighting

Direct current

Power

Direct current

If alternating current system, state frequency of periods per second

L

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

L

Generators, do they comply with the requirements regarding rating

Yes

, are they compound wound

Yes

are they over compounded 5 per cent.

Yes

, if not compound wound state distance between each generator

L

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

Yes

, is an adjustable regulating resistance fitted in

series with each shunt field

L

Are all terminals accessible, clearly marked, and furnished with sockets

Yes

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

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

In Engine room

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

L

and

L

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

Yes

are their axes 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

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

L

and

L

are they constructed wholly of durable, non-ignitable 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 insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

Yes

and is the frame effectively earthed

Yes

Are the fittings as per Rule regarding:— spacing or shielding of live parts

Yes

, 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

Yes a double

pole pole over main switch for each generator, 2 in 1 amp

Instruments on main switchboard

Ten

ammeters

two

volts

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

by two lamps

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

Yes

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

Yes

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1. If the immigrants are supplied, are they of a type approved by the Home Office.....

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. W. N. HOOS & Co's
ELECTRICITEITS MAATSCHAPPIJ

W. N. Hoos
DIRECTEUR.

Electrical Engineers.

Date *21 Nov. 29.*

COMPASSES.

Distance between electric generators or motors and standard compass *180 ft.*

Distance between electric generators or motors and steering compass *180 ft.*

The nearest cables to the compasses are as follows:—

A cable carrying *15* Ampères *14* feet from standard compass *18* feet from steering compass.

A cable carrying *10* Ampères *14* feet from standard compass *18* feet from steering compass.

A cable carrying *1* Ampères *14* feet from standard compass *18* 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 *<* degrees on *whole* course in the case of the standard compass, and *<* degrees on *<* course in the case of the steering compass.

N. V. C. van der Giessen & Zonen's

Scheepswerven

W. C. van der Giessen

Builder's Signature.

Date *21-11-29.*

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel

T. S. Motor Vessel "Tuncum"
(built Sep 111929)

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

*The installation has been made in accordance with the Rules and workmanship good.
The whole has been tested under full working conditions, found good and efficient.*

It is submitted that
this vessel is fitted for
THE RECORD.

Clear Light

R. J. 26/11/29

Total Capacity of Generators *24* Kilowatts.

The amount of Fee ...

£ 234.-

When applied for,

19.....

Travelling Expenses (if any) £

When received,

23.12.29

H. W. Berman
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Clear Light



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