

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office..... 8 SEP 1926

Date of writing Report 12.8.1926 When handed in at Local Office

Port of GLASGOW.

No. in Survey held at GREENOCK.

Date, First Survey 23<sup>rd</sup> July. Last Survey 17<sup>th</sup> Aug 1926

Reg. Book.

9/427 on the S. S. WAIPATA.

Tons { Gross 2826  
Net 1603

Built at GLASGOW.

By whom built MESSRS NAPIER &amp; MILLER and No. 258 When built 1926.

Owners THE UNION S.S. OF NEW ZEALAND LTD. Port belonging to

Electric Light Installation fitted by MESSRS TROUP CURTISS &amp; CO LTD Contract No. 258 When fitted 1926.

## System of Distribution

Two-wire, D.C. ✓

Pressure of supply for Lighting

110 ✓

volts, Heating

110 ✓

volts, Power

110

volts.

Direct or Alternating Current, Lighting

Direct ✓

Power

Direct ✓

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.

, if not compound wound state distance between each generator

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

series with each shunt field

Yes

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

Platform on Starboard side of 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

, 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

Main Switch Boards, where placed

After end of Dynamo Platform

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

Yes

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

, accessibility of all parts

Yes

Yes

, absence of fuses on back of board

Yes

, proportion of omnibus

bars

Yes

Individual fuses to voltmeters, 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

1. D. P. Switch, 2. S. P. Fuses

Instruments on main switchboard

One

ammeters

One

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

Lamps in series, with earth connection controlled by switch

Switches, Circuit Breakers and Fusible Out-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



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Foundation  
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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.

For TROUP, CURTIS & CO LTD

J. Ryan

Electrical Engineers.

Date August 23-1926

#### COMPASSES.

Distance between electric generators or motors and standard compass 104 ft

Distance between electric generators or motors and steering compass 100 ft

The nearest cables to the compasses are as follows:—

A cable carrying 3 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying 1.7 Amperes 6 feet from standard compass 6 feet from steering compass.

A cable carrying 25 Amperes in feet from standard compass in feet from steering compass.

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

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

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

For Napier & Miller Ltd John L. Goodwin Builder's Signature. Date 25<sup>th</sup> Aug 1926

Is this installation a duplicate of a previous case No. If so, state name of vessel

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

has been fitted on board under special survey. Tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.

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

J.W.D.  
8/9/26

Total Capacity of Generators 12 Kilowatts

The amount of Fee ... £ 12.0.0. When applied for, 2.9.26.

Travelling Expenses (if any) £ 10/6 When received, 7.9.26.

Committee's Minute GLASGOW 7-SEP 1926

Assigned Elec. Light.

J. S. Rankin  
Surveyor to Lloyd's Register of Shipping.



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