

## REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 APR 1926

Received at London Office

Date of writing Report 14.4.1926. When handed in at Local Office 26-4-1926 Port of GLASGOW

No. in Survey held at RENFREW. Date, First Survey 5<sup>th</sup> Mar Last Survey 29<sup>th</sup> Mar 1926  
Reg. Book. (Number of Visits 2)39866. on the DREDGER "LORD WILLINGTON" Tons { Gross 864  
Net

Built at RENFREW. By whom built MESSRS W. SIMONS &amp; CO. Yard No. 674 When built 1926.

Owners THE INDIA OFFICE Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS W. C. MARTIN &amp; CO. Contract No. 674 When fitted 1926.

## System of Distribution

Two Wire

Pressure of supply for Lighting

110

volts, Heating

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.

yes

, if not compound wound state distance between each generator

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

No

, is an adjustable regulating resistance fitted in

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

On starting platform 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

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

Near Generators

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

yes

, 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 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

pole main switches &amp; fuses for generators, double pole change-over switch and double pole fuse for each circuit

Instruments on main switchboard

Two

ammeters

Two

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 Earth lamps and Switches

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



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Foundation 011047-011056-0267 1/2



[illegible]



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.

*W. B. Martin*

Electrical Engineers.

Date

*14 April 1926*

#### COMPASSES.

Distance between electric generators or motors and standard compass

*25 ft*

Distance between electric generators or motors and steering compass

*32 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *2* Amperes *20* feet from standard compass *12* feet from steering compass.

A cable carrying *1* Amperes *20* feet from standard compass *12* feet from steering compass.

A cable carrying Amperes feet from standard compass 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 *a certain* course in the case of the standard compass, and *Nil* degrees on *the same* course in the case of the steering compass.

*W. B. Martin*

Builder's Signature.

Date

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.

*C. S. J. W. D.*  
*29/4/26*

Total Capacity of Generators *36* Kilowatts

The amount of Fee ...

*194.0.0* When applied for, *20/4/26*

Travelling Expenses (if any) £

When received, *11.5.26*

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

Committee's Minute *GLASGOW 27 APR 1926*

Assigned

*Elec. Light.*



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