

Rpt. 18.

No. 4386H

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 27-6-24 When handed in at Local Office 4-8-24 Port of GLASGOW

WED 6 AUG 1924
TUE JUL 8 1924No. in Survey held at GREENOCK Date, First Survey 19-6-24 Last Survey 24-6-1924
Reg. Book.39885 on the S.S. "LOWANA" Tons { Gross 3021
Net 2

Built at Port GLASGOW By whom built DUNLOP BRENNER & CO. Yard No. 343 When built 1924

Owners MELBOURNE S.S. CO. LTD. Port belonging to MELBOURNE

Electric Light Installation fitted by Messrs. CLAUD HAMILTON & Co. Contract No. 343 When fitted 1924

System of Distribution Distribution Fuse boxes Double wire system.

Pressure of supply for Lighting 110 volts, Heating none volts, Power none volts.

Direct or Alternating Current, Lighting Direct Power -

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 one only, 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 5 Sect. 2 yes.

Position of Generators Engine Room Starting platform

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 4 feet and 10 feet, 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 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 4 feet and 10 feet.

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.

frame effectively earthed yes. Are the following fittings as per Rule, viz. :- spacing or shielding of live parts

yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus bars 500 amperes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches sweat.

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

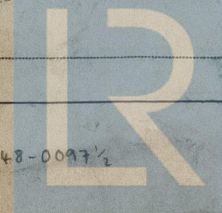
fuses for dynamo D.P. 7 S.P. Switches for circuits and D.P. fuses

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 Earth Lamp

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 Sect 6 Rule 3.



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Foundation

011140-011148-0097

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 CLAUD HAMILTON, LIMITED

Electrical Engineers.

Date 14 July 1924.

COMPASSES.

Distance between electric generators or motors and standard compass

90 feet

Distance between electric generators or motors and steering compass

86 feet

The nearest cables to the compasses are as follows:—

A cable carrying 8 Amperes 28 feet from standard compass 28 feet from steering compass.

A cable carrying 3 Amperes 6 feet from standard compass 6 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

any

course in the case of the standard

compass, and

nil

degrees on

any

course in the case of the steering compass.

DUNLOP, BREMNER & COY., LIMITED

Humphreys

Manager

Builder's Signature.

Date 14 July 1924.

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.

Total Capacity of Generators 12.5 Kilowatts

The amount of Fee ...

£ 12 : 10 : 0

When applied for,

1924.

Travelling Expenses (if any) £

10/6

When received,

1924

M.A.S.A.

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

5 AUG 1924

AD

Assigned

Elec. Light.



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