

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 JUL 1928

Date of writing Report 12 July 1928 When handed in at Local Office 12 July 1928 Port of Leith

No. in Survey held at Leith Date, First Survey 18 June 1928 Last Survey 3 July 1928
Reg. Book. (Number of Visits 4)on the S. S. "Oporto" Tons { Gross
Net

Built at Leith By whom built Carnegie & Ferguson Ltd Yard No. 265 When built 1928

Owners The Ellerman Lines Ltd Port belonging to Liverpool

Electric Light Installation fitted by Telford Price & Mackay Ltd Contract No. - When fitted 1928

System of Distribution Two Wire

Pressure of supply for Lighting 110 volts, Heating - volts, Power - 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 rating 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 yes

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 Lower Engine Room at 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

- and - 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 on Bulkhead near Generator.

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, non-ignitable non-absorbent materials yes, is all insulation of high dielectric strength and of

permanently high insulation resistance Enamelled Slate, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micaite 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

Double pole Main Switch & two single pole fuses for Generator

Double pole Main Switch & two single pole fuses for each outgoing circuit

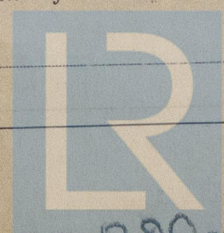
Instruments on main switchboard One ammeter One voltmeter - synchronising device for paralleling purposes.

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

Lamp Switch & fuse in Circuit between each bus bar & earth

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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W280-016P

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.

Yelford Grier & Mackay Ltd
per Wm Henderson Director

Electrical Engineers.

Date *11-7-28.*

COMPASSES.

Distance between electric generators or motors and standard compass

64 feet

Distance between electric generators or motors and steering compass

68 feet

The nearest cables to the compasses are as follows:—

A cable carrying *4* Amperes *8* feet from standard compass *10* feet from steering compass.

A cable carrying *1/2* Amperes *one* feet from standard compass *one* 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 _____ course in the case of the standard

compass, and *nil* degrees on _____ course in the case of the steering compass.

RAMAGE & FERGUSON, LIMITED

G. H. Murray
SHIPYARD MANAGER

Builder's Signature.

Date *18/7/28.*

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 well fitted & proved satisfactory on steam trial.

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

18/7/28.

Total Capacity of Generators *7* Kilowatts.

The amount of Fee ... £ *7* : - : When applied for, *11-7-28.*

Travelling Expenses (if any) £ : : When received, *19-7-28*

A. T. Thomas

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned *Elec. Light*



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