

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

20 APR 1929

Date of writing Report 9th APRIL 1929 When handed in at Local Office 18 APR. 1929 Port of Liverpool

No. in Survey held at BIRKENHEAD

Date, First Survey Dec 20th Last Survey Apr 3rd 1929

Reg. Book.

(Number of Visits.....38.....)

90724 on the "LADY RODNEY"

Tons { Gross 7650  
Net 4936

Built at BIRKENHEAD.

By whom built CAMMELL, LAIRD &amp; CO. LTD. Yard No. 944.

When built 1929.

Owners CANADIAN NATIONAL RAILWAYS.

Port belonging to Montreal

Electric Light Installation fitted by SUNDERLAND FORGE &amp; ENGINE CO. LTD.

Contract No. 944 When fitted 1929.

## System of Distribution

DOUBLE WIRE.

Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 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 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 YES, 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

DYNAMO FLAT. 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 YES, 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 SWITCHBOARD FLAT. 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

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 D.P. CIRCUIT BREAKERS.

WITH S.P. EQUALIZER SWITCHES FOR EACH GENERATOR. D.P. SWITCHES &amp; FUSES FOR EACH OUTGOING CIRCUIT.

Instruments on main switchboard 6 ammeters 3 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

LAMPS, SWITCHES &amp; FUSES ON EACH POLE TO MAIN BUS-BARS.

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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Foundation



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.

p. pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD. Electrical Engineers.

Date 11.4.29.

COMPASSES.

Distance between electric generators or motors and standard compass

145 FEET.

Distance between electric generators or motors and steering compass

140 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 10 feet from standard compass 8 feet from steering compass.

A cable carrying Amperes feet from standard compass 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 1° E degrees on all courses E by N. to W. S. W. in the case of the standard compass, and 2° E degrees on all courses N. E. by N. to N. E. by E in the case of the steering compass.

CAMMELL LAIRD AND COMPANY LIMITED

Builder's Signature.

Date

Is this installation a duplicate of a previous case If so, state name of vessel "LADY SOMERS"

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

This installation has been fitted under special survey, and is in accordance with the Rule requirements. It was found satisfactory under full working conditions, & is eligible in my opinion for record of 'Elec Light' in Register book.

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

Y. R. M.

23.4.29

Total Capacity of Generators 543 Kilowatts.

The amount of Fee ...

When applied for, 1919 1929

J. P. Mutton

Surveyor to Lloyd's Register of Shipping.

Travelling Expenses (if any) £

When received, 18.5.29

Committee's Minute

LIVERPOOL 19 APR. 1929

Assigned

Electric Light



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