

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 & CO. LTD.** Yard No. **944.** When built **1929.**

Owners **CANADIAN NATIONAL RAILWAYS.** Port belonging to **Montreal**

Electric Light Installation fitted by **SUNDERLAND FORGE & ENG^g 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 **-**, 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 **-** 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 **YES.**

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 **D.P. CIRCUIT BREAKERS.**

WITH S.P. EQUALIZER SWITCHES FOR EACH GENERATOR. D.P. SWITCHES & 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 & 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.**

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 Ampères 10 feet from standard compass 8 feet from steering compass.
A cable carrying Ampères feet from standard compass feet from steering compass.
A cable carrying Ampères 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 course in the case of the standard compass, and 2° E degrees on all courses N. E. by N. to N. E. by E course in the case of the steering compass.

GAMMELL LAIRD AND COMPANY LIMITED

Builder's Signature. LOCAL SECRETARY.

Is this installation a duplicate of a previous case YES. 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, and 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

Total Capacity of Generators 543 Kilowatts.

The amount of Fee ... £45.1.6 When applied for, 19 APR 1929

J. P. Melton

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

1m. 228.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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