

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office..... 8. Sept. 1926.

Date of writing Report 1 - 9 - 1926 When handed in at Local Office 10 Port of GLASGOW

No. in Survey held at GREENOCK Date, First Survey 24<sup>th</sup> July Last Survey 31<sup>st</sup> Aug 1926.  
Reg. Book. (Number of Visits..... 2)

88706 on the S. S. DALBLAIR Tons { Gross 4608  
Net 2810

Built at GREENOCK By whom built SCOTTS' S. & E. COY. LTD. Yard No. 528 When built 1926

Owners UNITED STEAM NAVIGATION COY. Port belonging to NEWCASTLE

Electric Light Installation fitted by MESSRS SCOTTS' S. & E. COY LTD Contract No. 528 When fitted 1926

System of Distribution TWO CONDUCTOR INSULATED ✓

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 overload YES ✓, are they compound wound YES ✓

are they over compounded 5 per cent. LEVEL COMPOUND, 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 —

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 Generator BOTTOM PLATFORM MAIN 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 Board, where placed BOTTOM PLATFORM MAIN 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 YES

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 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 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.

ONE D.P. ST. Q.B. KNIFE SWITCH & D.P. FUSES FOR GENERATOR SIZE 100 AMPERES.

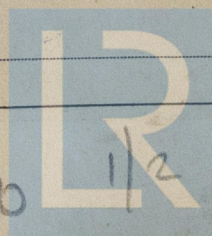
ONE S.P. ST. Q.B. KNIFE SWITCH & D.P. FUSES FOR EACH CIRCUIT SIZE 30 AMPERES.

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 TWO 30WATT 110 VOLT LAMPS IN PARALLEL BETWEEN POSITIVE & NEGATIVE POLES WITH MID POINT EARTHED, COMPLETE WITH D.P. SWITCHES & FUSES. YES

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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W382-0150



If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office



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.

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY,  
LIMITED

*Alban*

Electrical Engineers.

Date 4/9/26

ELECTRICAL MANAGER.

#### COMPASSES.

Distance between electric ~~generator~~ motor and standard compass 13 FEET

Distance between electric ~~generator~~ motor and steering compass 9 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 19 Amperes 12 feet from standard compass 12 feet from steering compass.

A cable carrying 6.6 Amperes 12 feet from standard compass 8 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 EVERY course in the case of the standard

compass, and NIL degrees on EVERY course in the case of the steering compass.

SCOTT'S SHIPBUILDING & ENGINEERING COMPANY,  
LIMITED.

*A. Hutchinson*

Builder's Signature.

Date 4/9/26

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.

*AMS*  
*J.W.D.*  
*4/9/26*

Total Capacity of Generators 10 Kilowatts

The amount of Fee ... £ 10:00

Travelling Expenses (if any) £ 10/6.

Committee's Minute GLASGOW 7-SEP 1926

Assigned *Elec. light*

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



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