

# REPORT ON ELECTRIC FITTINGS.

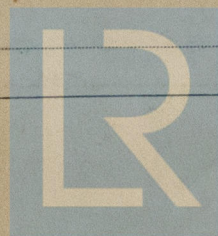
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

WED 12 MAR. 1924

Date of writing Report 8/2/24 When handed in at Local Office 10.3.24 Port of GLASGOW  
 No. in Survey held at GLASGOW Date, First Survey 28.1.24 Last Survey 8.2.24  
 Reg. Book. 39207 on the S.S. GRETASTON (Number of Visits 3)  
 Tons { Gross 5008  
 Net 3177  
 Built at PORT GLASGOW By whom built R. DUNCAN & CO Yard No. 352 When built 1924  
 Owners MESRS W. S. MILLAR & CO Port belonging to GLASGOW  
 Electric Light Installation fitted by MESRS GRINDLAY ROSS & CO Contract No. 352 When fitted 1924

System of Distribution DOUBLE WIRE  
 Pressure of supply for Lighting 100 volts, Heating --- volts, Power --- volts.  
 Direct or Alternating Current, Lighting DIRECT CURRENT 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 ---, is an adjustable regulating resistance fitted in series with each shunt field ---  
 Are all terminals accessible and clearly marked ---, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited --- Are the lubricating arrangements of the generators as per Rule YES  
 Position of Generators 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 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 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 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 ---, 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 ---  
POLISHED SLATE SLAB WITH MAIN D.P. SWITCH AND FUSES ALSO SUB D.P. SWITCHES AND FUSES FOR CIRCUITS.  
 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 LAMPS  
 FITTED. ---  
 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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W282-0097







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 GRINDLAY ROSS & CO. LTD.  
*John S. Grindlay*  
MANAGING DIRECTOR

Electrical Engineers.

Date *20<sup>th</sup> Feb 1924*

#### COMPASSES.

Distance between electric generators or motors and standard compass *30 yards*

Distance between electric generators or motors and steering compass *28 yards*

The nearest cables to the compasses are as follows:—

A cable carrying *.6* Ampères *1 1/2* feet from standard compass *1 1/2* feet from steering compass.

A cable carrying *.6* Ampères *6* feet from standard compass *6* feet from steering compass.

A cable carrying *.6* Ampères *8* feet from standard compass *8* 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. ✓

*Robert Duncan & Co Ltd*  
*per A Kelly*

Builder's Signature.

Date

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."*

*It is submitted that  
this vessel is eligible for  
THE RECORD*

*Elec. Light*

*13/3/24*

Total Capacity of Generators *12* Kilowatts

The amount of Fee ... £ *12-0-0* { When applied for, *clerk*

Travelling Expenses (if any) £ : : { When received, *16/2/24*

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

Committee's Minute *GLASGOW* *11 MAR. 1924*

Assigned

*Elec. Light*

*YMA*



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