

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) Received at London Office 26 OCT 1927

Date of writing Report 5.10.1927 When handed in at Local Office 22.10.1927 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 30.8.27 Last Survey 21.9.1927  
Reg. Book. 26099 on the M.V. KATOORA. (Number of Visits... 3)

Built at GREENOCK. By whom built MESSRS G BROWN & CO. Yard No. 155 When built 1927  
Tons { Gross  
Net

Owners THE ADELAIDE SS. CO LTD Port belonging to PORT ADELAIDE

Electric Light Installation fitted by THE SUNDERLAND FORGE & ENG CO Contract No. 155 When fitted 1927

System of Distribution DOUBLE WIRE. ✓  
Pressure of supply for Lighting 220. ✓ volts, Heating — 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 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 NOT IN PARALLEL. ✓, is an adjustable regulating resistance fitted in series with each shunt field YES. ✓

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 Generators IN MAIN ENGINE ROOM - PORT & STARBOARD.

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 IN MAIN ENGINE ROOM. FORWARD BULKHEAD. STARBOARD SIDE.

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, 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 mica-ite and the slab similarly insulated from its framework YES.

Are the following fittings as per Rule, viz.: — spacing or shielding of live parts frame effectively earthed 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.

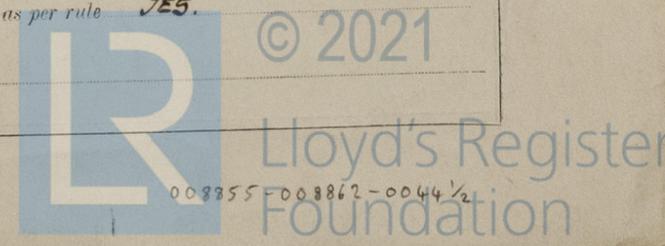
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches DOUBLE POLE SWITCH & FUSES FOR EACH GENERATOR. 2 WAY SINGLE POLE SWITCH & DOUBLE POLE FUSES FOR EACH OUTGOING POWER CIRCUIT. 3 WAY SINGLE POLE SWITCH & DOUBLE POLE FUSES FOR EACH OUTGOING LIGHTING CIRCUIT.

Instruments on main switchboard 3 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 2 EARTH LAMPS, 2 SINGLE POLE FUSES & 1-3 WAY AND OFF DOUBLE POLE EARTH SWITCH.

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.





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.p. *The Sunderland Forge & Eng. Co. Ltd.*  
*R. H. Gough*

Electrical Engineers.

Date *13/10/27*

COMPASSES.

Distance between electric generators or motors and standard compass *71 FEET*

Distance between electric generators or motors and steering compass *65 FEET*

The nearest cables to the compasses are as follows:—

A cable carrying *3.5* Ampères *9* feet from standard compass *9* feet from steering compass.

A cable carrying *.1* Ampères *6* feet from standard compass *LED INTO* feet from steering compass.

A cable carrying *.1* Ampères *LED INTO* feet from standard compass *6* 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.

*Geo Brown J.*

Builder's Signature.

Date *14.10.27*

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.

*JWD*  
*1/11/27*

Total Capacity of Generators *57* Kilowatts

The amount of Fee ... *£ 28.4.0* : *When applied for, 11.10.27*

Travelling Expenses (if any) *£ 1.1.0* : *When received, 27.10.28*

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

Committee's Minute *GLASGOW 25. OCT 1927*

Assigned *Elec. Light.*

*WJM*



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*a.l.*  
*22/10/27*

Im. 9.24.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)