

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 10 SEP 1924

Date of writing Report 15.8.1924 When handed in at Local Office 8.9.1924 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 7-8-24 Last Survey 13-8-1924  
Reg. Book.

88962 on the S.S. "GEM" (Number of Visits 2)

Built at BOWLING By whom built SCOTT &amp; SONS Yard No. 295. When built 1924.

Owners MESSRS W<sup>M</sup> ROBERTSON Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS SCOTT &amp; SONS Contract No. 295. When fitted 1924.

System of Distribution TWO WIRE

Pressure of supply for Lighting 100 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. 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 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 ENGINE ROOM PORT SIDE

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 ABOVE DYNAMO

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 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

D.P. Main Switch of fuses + S.P. Switches and D.P. fuses for distribution circuits  
BOWLING

Instruments on main switchboard ONE ammeters ONE 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

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



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

[illegible]



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 & Sons* Electrical Engineers.

Date *1<sup>st</sup> Sept. 1924.*

COMPASSES.

Distance between electric generators or motors and standard compass

*85 ft.*

Distance between electric generators or motors and steering compass

*85 ft.*

The nearest cables to the compasses are as follows:—

A cable carrying *5* Amperes *6* feet from standard compass *4* feet from steering compass.

A cable carrying *13* Amperes *in* feet from standard compass *in* feet from steering compass.

A cable carrying *201* Amperes *in* feet from standard compass *in* 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 *0* degrees on *any.* course in the case of the standard compass, and *0* degrees on *any.* course in the case of the steering compass.

*Scott & Sons*

Builder's Signature.

Date *1<sup>st</sup> Sept. 1924.*

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 & found satisfactory. The workmanship was found to be good and sound.*

It is submitted that  
this vessel is eligible for  
THE RECORD. *Elec light.*

*W.D.*  
*18/9/24*

Total Capacity of Generators *4.5* Kilowatts

The amount of Fee ... £ *5-0-0* *22/9/24*

Travelling Expenses (if any) £ *26/8/24*

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

Committee's Minute *GLASGOW*

Assigned *Elec Light.*

Im. 3.22.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

*A.L.*  
*8/9/24*



© 2020

Lloyd's Register  
Foundation