

Rpt. 13.

No. 29526

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

18 OCT 1927

Date of writing Report

10

When handed in at Local Office

17 OCT. 1927

Port of

Newcastle-on-Tyne

No. in Survey held at **SUNDERLAND**  
Reg. Book.

Date, First Survey

Sep. 5

Last Survey

Sep. 29 1927

(Number of Visits.....)

on the **55 / RENE S. EMBIRICOS**

Tons

Gross **4164**Net **3754**Built at **SUNDERLAND**By whom built **SHORT BROS. LTD.**Yard No. **426**When built **1927**Owners **S. G. Embiricos**

Port belonging to

**Athens**Electric Light Installation fitted by **SUNDERLAND FORCE & ENGINEERING CO**

Contract No.

When fitted **1927**System of Distribution **DOUBLE WIRE**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 **JES.**

Generators, do they comply with the requirements regarding rating

**JES**

, are they compound wound

**JES**

are they over compounded 5 per cent.

**JES**

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets

**JES**

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

**JES**

Are the lubricating arrangements of the generators as per Rule

**JES**

Position of Generators

**MAIN ENGINE ROOM**

is the ventilation in way of the generators satisfactory

**JES.**

, are they clear of all inflammable material

**JES**

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

**JES**

are their axes of rotation fore and aft

**JES.**

Earthing, are the bedplates and frames of the generating plant efficiently earthed

**JES.**

are the prime movers and

their respective generators in metallic contact

**JES**Main Switch Boards, where placed **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

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes

**JES**

are they protected from mechanical injury and damage from water, steam or oil

**JES**

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

are they constructed wholly of durable, non-ignitable non-absorbent materials

**JES**

, is all insulation of high dielectric strength and of

permanently high insulation resistance

**JES**

, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or miculate or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

**JES**

and is the frame effectively earthed

**JES**

Are the fittings as per Rule regarding:— spacing or shielding of live parts

**JES**

, accessibility of all parts

**JES**

, absence of fuses on back of board

**JES**

, proportion of omnibus

bars

**JES**

, individual fuses to voltmeter, pilot or earth lamp

**JES**

, connections of switches

**JES**Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches **DOUBLE POLE SWITCH &****FUSES FOR MAIN GENERATOR. SINGLE POLE SWITCH & DOUBLE POLE FUSES FOR EACH OUTGOING CIRCUIT.**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 LAMP SWITCH &****FUSE ON EACH POLE**Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules **JES**

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

**JES**

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Lloyd's Register  
Foundation



*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.

The Sunderland Forge & Engineering Co. Limited. Electrical Engineers.

Date 5th Oct. 1927.

#### COMPASSES.

Distance between electric generators or motors and standard compass 110 FEET

Distance between electric generators or motors and steering compass 102 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 7.02 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .2 Ampères 10 feet from standard compass LED INTO feet from steering compass.

A cable carrying .2 Ampères LED INTO feet from standard compass 10 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.

The maximum deviation due to electric currents was found to be 20 degrees on any course in the case of the standard compass, and 20 degrees on any course in the case of the steering compass.

FOR SHIPBROTHERS, LIMITED.

E. C. Shott

Builder's Signature.

Date 14 Oct 1927.

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 built under Special Survey and the materials and workmanship are good. After being fitted in the vessel it was tried under full working conditions with satisfactory results. The vessel is in my opinion eligible to have the note Electric Light marked in the Register Book.

Elec. Light  
26.10.27

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 10 : 0 0

Travelling Expenses (if any) £ : : 26.10.27

A. I. Griffith.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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