

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 26 SEP 1924

Date of writing Report Sept 1924 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at NIEL Date, First Survey 30th Aug. 1924.
 Reg. Book. Steel S.S. "IVAN GORTHOV" (Number of Visits.....)

Built at NIEL By whom built HOWALDTSWERKE Yard No. 647 When built 1924
 Owners Rederiet "Gefion" Port belonging to HELSINGBORG

Electric Light Installation fitted by HOWALDTSWERKE Contract No. ✓ When fitted 1924

System of Distribution 2 wire direct current. ✓

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 shunt wound
 are they over compounded 5 per cent. ✓, if not compound wound state distance between each generator ✓

Where more than one generator is fitted are they arranged to run in parallel only one generator, 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 Engine room S.E. 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 ✓ are the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed Engine room S.E. 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 micanite and the slab similarly insulated from its framework ✓, and is the frame effectively earthed ✓ 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 20 x 2 1/2 in., individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

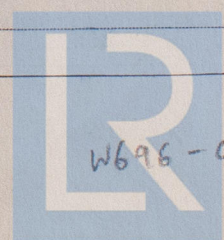
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches For the generator:
A double pole linked switch and a fuse on each pole, for each outgoing circuit.
A single pole switch on one pole and a fuse on each pole.

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 ✓

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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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 Guild are the Electrical Engineers. Date 1.9.24.

COMPASSES.

Distance between electric generators or motors and standard compass about 33 m. double wires.
Distance between electric generators or motors and steering compass 33 m.
The nearest cables to the compasses are as follows:—
A cable carrying 0.5 Ampères close to feet from standard compass close to feet from steering compass.
A cable carrying Ampères feet from standard compass feet from steering compass.
A cable carrying Ampères feet from standard compass feet from steering compass.
Have the compasses been adjusted with and without the electric installation at work at full power with.
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 1.2 degrees on course in the case of the standard compass, and 1.2 degrees on course in the case of the steering compass.

HOWALDTSWERKE

Builder's Signature.

Date 1.9.24.

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.)

Workmanship and material are of good quality. As the conductors used are of the German Standard the Society's Rules respecting conductors have been applied generally. The Installation is otherwise fitted in conformity with the requirements of the Rules and is eligible in my opinion for record of "ELECT. LIGHT."

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

29/9/24

Total Capacity of Generators 7.5 Kilowatts

The amount of Fee ... £ 7 : 10 :
Travelling Expenses (if any) £ : :
When applied for, 19
When received, 19

Friedrich Hill
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 30 SEP 1924

Assigned

Im. 8.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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