

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

11 JUL 1927

Date of writing Report 7th July 1927 When handed in at Local Office 8th July 1927. Port of Nantes.No. in Survey held at St. Nazaire. Date, First Survey 5th May 1926 Last Survey 6th July 1927
Reg. Book. 88.192. on the Steel Twin Screw Motor Vessel BENJAMIN FRANKLIN

Built at Penhoët, St. Nazaire By whom built Ch. et. Atel. de St. Nazaire Yard No. T5. When built 1927/7.

Owners Fred. Olsen & Co. Port belonging to Oslo.

Electric Light Installation fitted by Ch. et. Atel. de St. Nazaire (Penhoët) Contract No. T5. When fitted 1927.

System of Distribution Two wire.

Pressure of supply for Lighting 110 volts, Heating 220 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 Yes, 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, bottom platform, 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 on platform deck, across forward end of 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. Yes 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 micamite 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.

Double pole switch for each generator, fitted with automatic overload & reverse current circuit breaker.
Double pole switch for each outgoing circuit.Instruments on main switchboard 1 ammeters. 1 voltmeters generator each. synchronising device for paralleling purposes.
for each generator & emergency battery)Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system. earth lamp and one
voltmeter.

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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W340-009911125

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15340-0019(2020)

All Conductors are of annealed copper conforming to British Standard Specification No. 7. $\frac{1}{2}$
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

A Prince

Electrical Engineers.

Date 8th July 1927.

COMPASSES.

Distance between electric generators or motors and standard compass 33^m 0

Distance between electric generators or motors and steering compass 32^m 0

The nearest cables to the compasses are as follows:—

A cable carrying 4 Amperes 7 feet from standard compass 11 feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power $\frac{1}{2}$

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *None*

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

J. G. Jones

Builder's Signature.

Date 8th July 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.)

Workmanship good. This installation has been specially surveyed during its construction, which has been carried out in accordance with the approved plans and the Rules. Satisfactory running trials have been carried out and it merits in my opinion the notation of "electric light" in the Register Book.

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

elec light

E. R. 15/7/27

Total Capacity of Generators 300 Kilowatts

The amount of Fee £39.0.0 & from 4837.00
@ 12 1/2%
When applied for, 8th July 1927
When received, 19.

Travelling Expenses (if any) £d : 380.

Geo. A. Lang
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

elec light



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