

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED. NOV. 15 1922

Date of writing Report 9<sup>th</sup> Nov. 1922 When handed in at Local Office 14<sup>th</sup> Nov. 1922 Port of Southampton

Survey held at Cowes Date, First Survey Sept 16. Last Survey Sept 25. 1922  
(Number of Visits 3)

on the S.S. "Hitherwood" Tons { Gross  
Net

built at Cowes By whom built J. S. White & Co. Yard No. 1562 When built 1922.

owners B. A. Stewart & Co. Port belonging to London.

Electric Light Installation fitted by J. S. White & Co. Contract No. When fitted 1922.

System of Distribution Two-wire distribution box system

Pressure of supply for Lighting 110 volts, Heating Nil volts, Power Nil volts.

Direct or Alternating Current, Lighting Direct Power —

alternating current system, state frequency of periods per second —

Is 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 ✓

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 Yes ✓

Are all terminals accessible and clearly marked Yes ✓, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited Yes ✓ Are the lubricating arrangements of the generators as per Rule Yes ✓

Position of Generators Engine Room Starboard.

Is the ventilation in way of the generators satisfactory Yes ✓, are they clear of all inflammable material Yes ✓

Are they 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 ✓

Is their axis of rotation fore and aft Yes ✓

Are the bedplates and frames of the generating plant efficiently earthed Yes ✓ are the prime movers and

in respective generators in metallic contact Yes ✓

Main Switch Boards, where placed near dynamo in engine room.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

fuses on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard —

Are the 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 fitted in protected position ✓ 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

same 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

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

For generator: — 1- double pole linked switch and 2 single pole fuses.

Out-going Circuits: — Ditto also 1 S.P. Switch and 2 S.P. fuses.

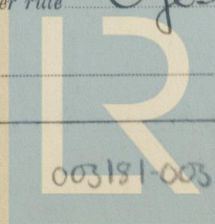
Instruments on main switchboard 1 ammeters 1 voltmeters — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system 2 Earth Cams

with switch and fuse to each.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes ✓

Construction and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes ✓



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Foundation

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If portable lamps for use in dangerous places are supplied, are they of a type approved by the Bureau?

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.

For J. SAMUEL WHITE & COMPANY, Ltd.

Electrical Engineers.

Date 10/11/1922

Managing Director.

#### COMPASSES.

Distance between electric generators or motors and standard compass 60 feet

Distance between electric generators or motors and steering compass 60 feet

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 15 feet from standard compass 10 feet from steering compass.

A cable carrying 1 Ampères 15 feet from standard compass 10 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 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 course in the case of the standard compass, and degrees on course in the case of the steering compass.

For J. SAMUEL WHITE & COMPANY, Ltd.

Builder's Signature.

Date 10/11/1922

Managing Director.

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 of electric light has been well fitted. The materials & workmanship are good. It has been tried under full working conditions and found satisfactory.

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

Elec. Light 16/11/22

Total Capacity of Generators 3.85 Kilowatts

The amount of Fee ... £ 5 : 0 : When applied for, 14/11/1922

Travelling Expenses (if any) £ : : When received, See Debit Book

J. G. MacKillop  
Surveyor to Lloyd's Register of Shipping.

FRI. 8 JUN. 1923

Committee's Minute

TUE. NOV. 21 1922

Assigned