

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 OCT 1924

Received at London Office

Date of writing Report

19

When handed in at Local Office

24/10/24 Port of NEWCASTLE-ON-TYNE

No. in Survey held at *Newcastle*Date, First Survey *6 Oct.*Last Survey *10 October 1924*

Reg. Book.

*84051 on the Sunnyhill*Built at *Vlaardingen*By whom built *N.V. Scheep. v.d. Winat*

Yard No. —

When built *1922*Owners *Richardson & Co. Ltd.*Port belonging to *Newcastle*Electric Light Installation fitted by *Messrs Clarke Chapman & Co. Ltd.* Contract No. — When fitted *1924*

## 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 *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*or short circuited *Yes*Are the lubricating arrangements of the generators as per Rule *Yes*

## Position of Generators

*Engine room starboard side*is the ventilation in way of the generators satisfactory *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 *Engine room on engineers store hatchhead.*

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 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

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*insulated from the slab with mica or micanite and the slab similarly insulated from its framework *Yes*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**fuses on dynamo mains, single pole switch & double pole fuses on each outgoing circuit*

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**coupled to earth through switches & fuses*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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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.

For Clarke, Chapman & Co., Ltd.

W. Woodhouse

Director.

Electrical Engineers.

Date Oct. 23<sup>rd</sup> 1924

#### COMPASSES.

Distance between electric generators or motors and standard compass 66 ft

Distance between electric generators or motors and steering compass 60 "

The nearest cables to the compasses are as follows:—

A cable carrying .5 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying .5 Amperes 6 feet from standard compass 12 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. 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 all course in the case of the standard compass, and Nil degrees on all course in the case of the steering compass.

Builder's Signature.

Date

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.)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation electric light

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

W.D.  
27/10/24

Total Capacity of Generators 4.5 Kilowatts

The amount of Fee ... £ 5 : — : When applied for, 18/10/24

Travelling Expenses (if any) £ : : When received, Dec 1924

W.T. Bagge

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 9. 22.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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