

Rpt. 13.

No. 76776

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

WED. 6 JUN 1923

Date of writing Report 24/5/1923 When handed in at Local Office 5/6/1923 Port of NEWCASTLE-ON-TYNE

No. in Survey held at South Shields Date, First Survey 2 May Last Survey 22/5/1923
Reg. Book. Supp. 80961 on the Hc STEELVILLE

Built at South Shields By whom built H. Readhead & Sons Yard No. 472 When built 1923

Owners Port belonging to

Electric Light Installation fitted by Messrs. Charles Chapman & Co. Contract No. 472 When fitted 1923

System of Distribution

Double wire system

Pressure of supply for Lighting 100 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 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 starboard 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 Engine room starboard 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 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

switched fuses in dynamic mains, double pole fuses & single pole switches on each outgoing circuit

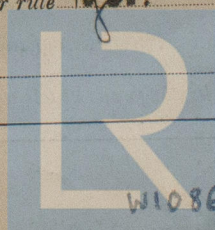
Instruments on main switchboard 1 ammeters 1 voltmeters — synchronising device for paralleling purposes.

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

coupled to earth through double pole 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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W1086-0207 1/2

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. *Chapman & Co. Ltd.*

J. Walker Chairman Electrical Engineers. Date *30/5/23*

COMPASSES.

Distance between electric generators or motors and standard compass *90 ft*

Distance between electric generators or motors and steering compass *8 ft*

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.

FOR JOHN READHEAD & SONS, LTD.

G. Bonner Secretary. 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 elec light, wireless

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

W.T. Badger 7/6/23

Total Capacity of Generators *7* Kilowatts

The amount of Fee ... £ *7* : 0 : *1/6* 1923
Travelling Expenses (if any) £ : : *When received, 1/6/23*

W.T. Badger
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned