

Rpt. 13.

No. 28988

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19 When handed in at Local Office 5 JAN 1925 Port of SUNDERLAND.

No. in Survey held at SUNDERLAND. Date, First Survey 5th Jan 1925 Last Survey 5th Jan 1925
Reg. Book. on the S/s "Buckleigh" (Number of Visits 2)

Tons { Gross 5074
Net 3146
When built 1924.

Built at SUNDERLAND. By whom built Bartram & Sons Ltd. Yard No. 256

Owners W. J. Latern, Ltd. Port belonging to London

Electric Light Installation fitted by Clarke, Chapman & Co. Ltd. Contract No. When fitted 1924.

System of Distribution Double Wire

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 midboard 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, boys swap ends

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 aft midboard

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 switch

4 fuses in dynamo mains, 1 in each outgoing circuit single pole switch & double pole fuses

Instruments on main switchboard 1 ammeter 1 voltmeter — synchronising device for paralleling purposes.

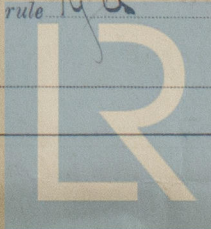
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system earth lamps

connected 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

W1084-0068 1/2



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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.

For Clarke, Chapman & Co., Ltd.

W. W. W. W. W.
Director.

Electrical Engineers.

Date *April 28th 1924*

COMPASSES.

Distance between electric generators or motors and standard compass *125 ft*

Distance between electric generators or motors and steering compass *120 "*

The nearest cables to the compasses are as follows:—

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

A cable carrying *.5* Ampères *6* feet from standard compass *12* 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

The maximum deviation due to electric currents was found to be *12* degrees on *all* course in the case of the standard

compass, and *12* degrees on *all* course in the case of the steering compass.

For Bartram & Sons Ltd.

R. M. Bartram, Junr.

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 installation has been satisfactorily fitted in the vessel, tested and found good.

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

J. W. D.
7/1/25

Total Capacity of Generators *10* Kilowatts

The amount of Fee ... £ *10 :-*

When applied for,

1 MAY 1924

When received,

14 MAY 1924

Travelling Expenses (if any) £

Committee's Minute

FRI. 9 JAN 1925

Assigned

S. C. Davis

Surveyor to Lloyd's Register of Shipping.